NON-COATED REINFORCING BAR DEVELOPMENT AND SPLICE LENGTHS

f 'c = 4000 PSI				
BAR SIZE	Ld	Ldt	Lt	Ltt
#3	15	20	20	26
#4	19	25	25	33
#5	24	32	32	41
#6	29	38	38	50
#7	42	55	55	71
#8	48	63	63	82
#9	54	71	71	92
#10	60	78	78	102
#11	66	86	86	112

f 'c = 5000 PSI				
BAR SIZE	Ld	Ldt	Lt	Ltt
#3	13	17	17	22
#4	17	23	23	29
#5	22	29	29	38
#6	26	34	34	44
#7	38	50	50	65
#8	43	56	56	73
#9	48	63	63	82
#10	54	71	71	92
#11	59	77	77	100

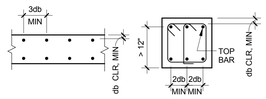
f 'c = 6000 PSI				
BAR SIZE	Ld	Ldt	Lt	Ltt
#3	12	16	16	21
#4	16	21	21	28
#5	20	26	26	34
#6	24	32	32	41
#7	34	45	45	58
#8	39	51	51	66
#9	44	58	58	75
#10	49	64	64	83
#11	54	71	71	92

ALL CONCRETE STRENGTHS			
BAR SIZE	Lb	Lc	Lcs
#3	9	12	12
#4	11	13	12
#5	14	16	15
#6	17	19	17
#7	20	22	20
#8	22	25	23
#9	25	29	26
#10	28	32	29
#11	31	35	31

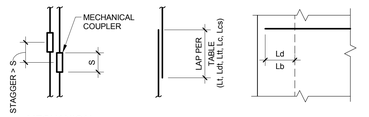
NOTES:

1. db = NOMINAL BAR DIAMETER
   Ld = TENSION DEVELOPMENT LENGTH
   Ldt = DEVELOPMENT LENGTH OF TOP BARS IN TENSION
   Lt = TENSION LAP SPLICE LENGTH
   Ltt = TENSION LAP SPLICE LENGTH OF TOP BARS
   Lb = COMPRESSION DEVELOPMENT LENGTH
   Lc = TIED COLUMN LAP SPLICE IN COMPRESSION
   Lcs = SPIRAL COLUMN LAP SPLICE IN COMPRESSION
2. REBAR DEVELOPMENT/SPLICE LENGTHS ARE BASED ON ACI 318. REINFORCEMENT YIELD STRENGTH, Fy = 60 KSI.
3. "TOP BARS" = HORIZONTAL BEAM, MAT, OR SLAB REINFORCING WITH MORE THAN12" CAST BELOW.
4. ALL SPLICES SHALL BE TENSION SPLICES, UNO.

TABLE VALUES SHALL BE MULTIPLIED BY 1.5 IF THE FOLLOWING CRITERIA ARE NOT MET:



SLAB / WALL COLUMN / BEAM



MECHANICAL SPLICE STAGGER LAP DETAIL DEVELOPMENT LENGTH

TYPICAL REINFORCING BAR DEVELOPMENT / SPLICE DETAILS

CONNECTORS

CONNECTOR	SECTION	END/ALT VIEW
CAST-IN ANCHOR ROD		
POST-INSTALLED MECHANICAL ANCHOR		
POST INSTALLED ADHESIVE ANCHOR		
HEADED STUD		
BOLT		

MASONRY MEMBERS

CMU SECTION

CMU BOND BEAM SECTION (FULLY GROUTED)

CMU LINTEL SECTION (FULLY GROUTED)

SINGLE REINFORCEMENT (FULLY GROUT REINFORCED CELLS)

PLAN

DOUBLE REINFORCEMENT (FULLY GROUT REINFORCED CELLS)

PLAN

STEEL SYMBOLS

STEEL DECK

STEEL DECK MARK AND SPAN DIRECTION (D#)

SLAB-ON-DECK MARK AND SPAN DIRECTION (S#)

BEAM SPLICE CONNECTION (OR)

BEAM SHEAR CONNECTION AT COLUMN

BEAM CONTINUOUS OVER COLUMN

BEAM MOMENT CONNECTION AT COLUMN

SLAB ON STEEL DECK

WWF

SLAB ON STEEL DECK

COLUMN STARTS HERE

BRACING

DIAGONAL BRACING

HANGER OR POST

HANGER OR POST BELOW FLOOR

STEEL MEMBERS

SHAPE	SECTION	ELEVATION	PLAN VIEW
W-SHAPE BEAM			
CHANNEL			
ANGLE			
DOUBLE ANGLE	LLV LLH		
HOLLOW STRUCTURAL SECTION -RECTANGULAR			
HOLLOW STRUCTURAL SECTION -CIRCULAR (PIPE)			
OPEN WEB STEEL JOIST			

STRUCTURAL DRAWING ABBREVIATIONS

&	AND
A/E	ARCHITECT/ENGINEER
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AGGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
APPROX	APPROXIMATE
AR	ANCHOR ROD
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BI	BOTTOM OF
BAL	BALANCE
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BRKT	BRACKET
BTWN	BETWEEN
BU	BUILT UP
C	STANDARD CHANNEL
CANT	CANTILEVER
CC	CENTER TO CENTER
CF	COLD FORMED
CG	CENTER OF GRAVITY
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT OR CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEARANCE, CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
CTRD	CENTERED
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CYD	CUBIC YARD
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION, DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIM	DIMENSION
DN	DOWN
DO	DITTO
DP	DEEP
DWG	DRAWING
DWL	DOWELS
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
ELEC	ELECTRICAL
ENCL	ENCLOSURE
ENGR	ENGINEER
EOD	EDGE OF DECK
EOJ	EDGE OF JOIST
EOS	EDGE OF SLAB
EQ	EQUAL
EQPT	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FS	FAR SIDE
FT	FEET
FTG	FOOTING
FTGD	FOOTING DRAIN
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GL	GLUED LAMINATED TIMBER (GLULAM)
GRND	GROUND
GT	GIRDER TRUSS
HAS	HEADED ANCHOR STUD
HORIZ	HORIZONTAL
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL SECTION
HT	HIP TRUSS
HVAC	HEATING, VENTILATION, AIR CONDITIONING
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INCL	INCLUDE
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
J/BRG	JOIST BEARING
JST	JOIST
JT	JOINT
KB	KNEE BRACE
KIP, K	1,000 POUNDS
KO	KNOCK-OUT
KSI	KIPS PER SQUARE INCH
L	ANGLE OR LENGTH
LAB	LABRATORY
LB	POUND
LF	LINEAL FOOT
LIN	LINEAL, LINEAR
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONGIT	LONGITUDINAL
LP	LOW POINT
LSL	LAMINATED STRAND LUMBER
LSLT	LONG SLOTTED HOLE
LTWT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MISCELLANEOUS CHANNEL
MECH	MECHANICAL
MEMB	MEMBRANE
MEP	MECHANICAL/ ELECTRICAL/ PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MULT	MULTIPLE
N/A	NOT APPLICABLE
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFD	OVERFLOW DRAIN
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OPPHD	OPPOSITE HAND
ORIG	ORIGINAL
OVS	OVERSIZED HOLE
OWJ	PRE-MANUFACTURED OPEN WEB JOIST
PC	PRECAST CONCRETE
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PREP	PREPARATION, PREPARE
PROJ	PROJECTION
PS	PRESTRESSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	POST-TENSIONED
R	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCEMENT, REINFORCE
REQD	REQUIRED
RO	ROUGH OPENING
RTU	ROOFTOP MECHANICAL UNIT
S	SLOPE
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SPA	SPACES, SPACE
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
SSLT	SHORT SLOTTED HOLE
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUC	STRUCTURAL
SYM	SYMMETRICAL
T & B	TOP AND BOTTOM
T/	TOP OF
T/GB	TOP OF GRADE BEAM
TBS	MECHANICAL TENSION BUTT SPLICE
TEMP	TEMPERATURE
THRU	THROUGH
TJI	PREFABRICATED WOOD I-JOIST
TRANS	TRANSVERSE
TYP	TYPICAL
UL	UNDERWRITERS' LABORATORY INC.
UNO	UNLESS NOTED OTHERWISE
UT	ULTRA-SONIC TEST
VERT	VERTICAL
W	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WD	WOOD
WH	WEEP HOLE
WP	WORK POINT
WT	WEIGHT, STRUCTURAL T
WWF	WELDED WIRE FABRIC
XS	EXTRA STRONG (PIPE)
XXS	DOUBLE EXTRA STRONG (PIPE)

MISCELLANEOUS SYMBOLS

NORTH ARROW

SECTION NUMBER / SHEET NUMBER (1 / S101)

CALLOUT NUMBER / SHEET NUMBER (1 / S101)

EARTH

GRAVEL

LIMIT OF EXTENT

CONTINUOUS EXTENT

ELEVATION REFERENCE (Name / Elevation)

GRIDLINES (A / 1)

C# COLUMN NOTATION

Z# PRECAST/ BRICK SUPPORT

L# LINTEL NOTATION

F ## COLUMN FOOTING NOTATION

WF ## WALL FOOTING NOTATION

GB ## GRADE BEAM NOTATION

P ## PIER NOTATION

B ## CONCRETE BEAM NOTATION

PB ## POST-TENSIONED CONCRETE BEAM NOTATION

PC ## PILE CAP NOTATION

BW ## BEARING WALL NOTATION

SW ## SHEAR WALL NOTATION

W ## WALL NOTATION

WP ## WALL PIER NOTATION

CONCRETE SYMBOLS

CHANGE OF SLAB ELEVATION

SLOPING SLAB

CHANGE OF SLAB THICKNESS

LIMIT OF MEMBER OR SPAN MARK

DIRECTION OF SPAN

OPENING

CONTROL JOINT LOCATION IN CONCRETE WALLS

INTENTIONALLY ROUGHENED CONSTRUCTION JOINT TO 1/4" AMPLITUDE

FORM-SAVER

SLAB ON GRADE MARK (SOG #)

POST-TENSION TENDON ANCHOR DEAD END LOCATION

POST-TENSION TENDON ANCHOR JACKING LOCATION

REBAR

MECHANICAL COUPLER REBAR SPLICE

REBAR TERMINATOR

SELF-EXPANDING WATERSTOP

PVC WATERSTOP

WELDED WIRE FABRIC

COLUMN CONTINUES

COLUMN TERMINATED

STRUCTURAL INDEX

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Revisions: | Date

SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

ARCHITECT/ENGINEERS:

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7260 SHADELAND STATION
INDIANAPOLIS, IN 46256-3957
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com

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317.638.8383

CONSULTANTS:

ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF PROFESSIONAL INDIANA ENGINEER
8/15/2014

Drawing Title: STRUCTURAL ABBREVIATIONS AND SYMBOLS

Project Title: SPS BASEMENT ADDITION

Project Number: 2010.00629

Building Number: 01

Approved: Project Director

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Drawing Number: SS-001

Office of Construction and Facilities Management

VA Department of Veterans Affairs

C:\Revit\Revit Structure 2013\2010\00629_VA Ft Wayne_Central_02252014_RSTR13_AZahn.rvt
8/13/2014 11:38:00 AM

VA FORM 08-6231

GENERAL

THE STRUCTURE HAS BEEN DESIGNED FOR THE IN-SERVICE LOADS ONLY. THE METHODS, MEANS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIEDOWNS, ETC.

THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS.

THE GENERAL NOTES ON THE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE FULL WRITTEN MATERIAL SPECIFICATIONS (IF ANY) FOR THE PROJECT. IF A DISCREPANCY OCCURS BETWEEN THE NOTES AND THE FULL SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

NO PENETRATIONS THROUGH STRUCTURAL ELEMENTS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, SHALL BE MADE WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

CONCRETE MIX DESIGN SUBMITTAL

THE CONTRACTOR SHALL SUBMIT FOR THE REVIEW OF THE STRUCTURAL ENGINEER A MIX DESIGN FOR EACH PROPOSED CLASS OF CONCRETE. EACH MIX DESIGN SHALL BE IDENTIFIED BY A MIX NUMBER OR OTHER UNIQUE IDENTIFICATION. THE CONTRACTOR SHALL NOT VARY FROM THE MIX DESIGNS NOR USE ANY CONCRETE OTHER THAN THE APPROVED MIX DESIGNS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. MIX DESIGN SUBMITTALS SHALL INCLUDE THE FOLLOWING INFORMATION:

1. MIX DESIGN NUMBER OR UNIQUE IDENTIFICATION AND INTENDED LOCATION OF PLACEMENT.
2. CEMENT TYPE, PROPORTION AND NAME OF MANUFACTURER.
3. FLY ASH PROPORTION (WHEN USED), LABORATORY ANALYSIS CERTIFICATION, AND NAME AND LOCATION OF SUPPLIER.
4. COURSE AGGREGATE PROPORTION, GRADATION REPORT, NAME AND LOCATION OF SUPPLIER.
5. FINE AGGREGATE PROPORTION, GRADATION REPORT, NAME AND LOCATION OF SUPPLIER.
6. MIXING WATER PROPORTION AND SOURCE.
7. ADMIXTURE DOSAGES, PRODUCT NAME(S) AND MANUFACTURER NAME(S).
8. FIBER REINFORCEMENT DOSAGE (WHEN USED), PRODUCT NAME AND MANUFACTURER NAME.
9. DESIGN 28-DAY COMPRESSIVE STRENGTH (F'C).
10. DESIGN SLUMP RANGE.
11. DESIGN AIR-ENTRAINMENT (FOR CONCRETE REQUIRING ENTRAINED AIR).
12. STATISTICAL ANALYSIS OF LABORATORY STRENGTH TEST DATA IN ACCORDANCE WITH "STANDARD DEVIATION" DETERMINATION OUTLINED IN ACI 318.

SHOP DRAWING SUBMITTALS

THE CONTRACTOR SHALL PREPARE DETAILED SHOP DRAWINGS TO ENABLE HIM TO FABRICATE, ERECT AND CONSTRUCT ALL PARTS OF THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THESE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, ACCURACY AND FIT OF WORK.

ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. DRAWINGS SUBMITTED WITHOUT CONTRACTOR'S REVIEW WILL BE RETURNED UNCHECKED.

SUBMIT HARD COPIES OR ELECTRONIC VERSIONS OF SHOP DRAWINGS. FOR HARD COPY OPTION, SUBMIT A MINIMUM OF TWO COPIES OF SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW (ONE COPY SHALL BE RETAINED BY THE STRUCTURAL ENGINEER). FOR ELECTRONIC OPTION, SUBMIT SHOP DRAWINGS IN ADOBE PDF FORMAT.

SUBMIT SHOP DRAWINGS FOR EACH OF THE FOLLOWING ITEMS:

1. CONCRETE REINFORCEMENT
2. CONCRETE MASONRY REINFORCEMENT
3. STRUCTURAL STEEL (INCLUDING DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS CONSTRUCTED FOR ALL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS)
4. STEEL DECK
5. SLAB COORDINATION DRAWINGS SHOWING OPENINGS, EMBEDED ITEMS, ETC.

PRODUCT DATA SUBMITTALS

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL PRODUCT DATA FOR THE SPECIFIC ITEMS LISTED BELOW. CONTRACTOR SHALL NOT USE PRODUCTS OTHER THAN THOSE SUBMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

SUBMIT HARD COPIES OR ELECTRONIC VERSIONS OF PRODUCT DATA. FOR HARD COPY OPTION, SUBMIT A MINIMUM OF TWO COPIES OF PRODUCT DATA TO THE STRUCTURAL ENGINEER FOR REVIEW (ONE COPY SHALL BE RETAINED BY THE STRUCTURAL ENGINEER). FOR ELECTRONIC OPTION, SUBMIT PRODUCT DATA IN ADOBE PDF FORMAT.

1. FIBER REINFORCEMENT FOR CONCRETE
2. CONCRETE CURING COMPOUND
3. CONCRETE JOINT SEALANT
4. WATER STOPS
5. MASONRY JOINT REINFORCEMENT
6. EXPANSION ANCHORS
7. ADHESIVE ANCHORS
8. NON-SHRINK GROUT

RENOVATION (EXISTING CONDITIONS)

INFORMATION SHOWN FOR THE EXISTING STRUCTURE ON THESE DRAWINGS WAS TAKEN FROM DRAWINGS THAT WERE PREPARED FOR THE WAR DEPARTMENT, ENTITILED VETRANS ADMINISTRATION HOSPITAL, DATED 11-12-1949.

WORK SHOWN ON THESE PLANS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN ACCORDANCE WITH THE ABOVE INDICATED ORIGINAL DRAWINGS INCLUDING (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, MEMBER SIZES, MATERIALS, DETAILS, ETC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

WHERE NEW WORK IS TO BE FITTED TO OLD WORK, THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND CONDITIONS IN THE FIELD, AND REPORT ANY ERRORS OR DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY NEW MEMBERS.

EXISTING MATERIALS TO BE REMOVED AND REINSTALLED AS PART OF THIS PROJECT, THAT BECOME DAMAGED, SHALL BE REPLACED WITH NEW MATERIAL OF EQUAL QUALITY AND APPEARANCE, AT THE CONTRACTOR'S EXPENSE.

ALL WORK SHALL BE PERFORMED WITHOUT DAMAGE TO ADJACENT RETAINED WORK. ADJACENT EXISTING CONSTRUCTION SHALL BE PROTECTED FROM DUST, DIRT AND DEBRIS ACCUMULATION AT ALL TIMES.

FOUNDATIONS

FOUNDATION EXCAVATIONS AND SOIL RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT NUMBER 86.00481.0287 PREPARED BY CARDNO ATC DATED FEBRUARY 25, 2013.

DESIGN NET SOIL PRESSURE:

SPREAD FOOTINGS: 10,000 PSF
CONTINUOUS WALL FOOTINGS: 6,000 PSF

FOUNDATIONS AND SOILS RELATED WORK SHALL BE INSPECTED BY A LICENSED GEOTECHNICAL ENGINEER. WRITTEN FIELD REPORTS SHALL BE FORWARDED TO THE STRUCTURAL ENGINEER AS SOON AS THEY BECOME AVAILABLE.

FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION, WHICH DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT, SHALL BE REPORTED TO THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.

EXCAVATIONS FOR SPREAD FOOTINGS, COMBINED FOOTINGS, CONTINUOUS FOOTINGS AND MAT FOUNDATIONS SHALL BE CLEANED AND HAND TAMPED TO UNIFORM SURFACE AND SHALL BE PROTECTED AND MAINTAINED UNIFORM UNTIL CONCRETE IS PLACED.

BELOW-GRADE WALLS

DO NOT BACKFILL AGAINST BELOW-GRADE CONCRETE (OR MASONRY) WALLS UNTIL THE CONCRETE (OR MASONRY ASSEMBLAGE) HAS REACHED ITS 28-DAY COMPRESSIVE STRENGTH.

WHERE BACKFILL IS REQUIRED ON BOTH SIDES OF BELOW-GRADE WALLS, BACKFILL EVENLY ON EACH SIDE OF EACH WALL TO PREVENT UNBALANCED SOIL LOADS AGAINST THE WALL.

UNLESS NOTED OTHERWISE, DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL THE BASEMENT AND GROUND FLOOR SLABS HAVE BEEN COMPLETELY INSTALLED AND REACHED THEIR 28-DAY COMPRESSIVE STRENGTH AND ALL FLOOR FRAMING AND SLAB CONNECTIONS TO THE BASEMENT WALLS HAVE BEEN COMPLETELY INSTALLED.

WHERE BASEMENT WALLS OCCUR, BACKFILL EVENLY ON ALL SIDES OF THE BUILDING TO PREVENT UNBALANCED SOIL LOADS AGAINST THE BASEMENT STRUCTURE, UNLESS NOTED OTHERWISE.

CONCRETE

REINFORCED CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318) AND COMMENTARY (ACI 318R).

MIXING, TRANSPORTING, AND PLACING OF CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301). READY-MIXED CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C94. IN CASE OF A DISCREPANCY, THE PLANS AND SPECIFICATIONS SHALL GOVERN.

CEMENT SHALL CONFORM TO ASTM C150, TYPE I.

FLY ASH SHALL CONFORM TO ASTM C618, CLASS C OR F. THE RATIO OF THE AMOUNT (BY WEIGHT) OF FLY ASH TO TOTAL CEMENTITIOUS MATERIALS IN THE MIX SHALL NOT EXCEED 25 PERCENT.

NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C33.

WATER-REDUCING ADMIXTURES SHALL CONFORM TO ASTM C494.

AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260 AND SHALL BE CERTIFIED BY THE MANUFACTURER TO BE COMPATIBLE WITH OTHER ADMIXTURES.

CALCIUM CHLORIDE ADMIXTURES OR ADMIXTURES CONTAINING MORE THAN 0.1 PERCENT CHLORIDE IONS SHALL NOT BE USED.

IN COLD WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 306R, COLD WEATHER CONCRETING.

IN HOT WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 305R, HOT WEATHER CONCRETING.

USE OF CONSTRUCTION JOINTS AT LOCATIONS OTHER THAN THOSE INDICATED ON THE DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.

SLUMP FOR PUMPED CONCRETE SHALL BE MEASURED AT POINT OF DISCHARGE.

NORMAL WEIGHT CONCRETE SHALL BE USED IN THE FOLLOWING AREAS AND SHALL HAVE THE PROPERTIES AS SHOWN BELOW:

FOOTINGS AND MATS
1. COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
2. MAXIMUM SLUMP: 4 INCHES
3. MINIMUM CEMENTITIOUS MATERIALS CONTENT: 470 LB./CU. YD.
4. MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP).
5. MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.48
6. MAXIMUM COARSE AGGREGATE SIZE: 1-1/2 INCHES
7. AIR CONTENT: N/A

ENTRANCE PLATFORMS, RETAINING WALLS, AND CURBS/SIDEWALKS/SLABS EXPOSED TO DE-ICERS
1. COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
2. MAXIMUM SLUMP: 4 INCHES
3. MINIMUM CEMENTITIOUS MATERIALS CONTENT: 517 LB./CU. YD.
4. MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP).
5. MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.45
6. MAXIMUM COARSE AGGREGATE SIZE: 1 INCH
7. AIR CONTENT: 5.5% +/- 1%

INTERIOR SLABS ON GRADE
1. COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
2. MAXIMUM SLUMP: 4 INCHES
3. MINIMUM CEMENTITIOUS MATERIALS CONTENT: 470 LB./CU. YD.
4. MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP).
5. MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.48
6. MAXIMUM COARSE AGGREGATE SIZE: 1 INCH
7. AIR CONTENT: N/A

SLABS ON METAL DECK
1. COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
2. MAXIMUM SLUMP: 4 INCHES
3. MINIMUM CEMENTITIOUS MATERIALS CONTENT: 470 LB./CU. YD.
4. MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP).
5. MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.48
6. MAXIMUM COARSE AGGREGATE SIZE: 1 INCH
7. AIR CONTENT: N/A

STRUCTURAL COLUMNS, BEAMS, JOIST, ELEVATED SLABS, BASEMENT WALLS, SHAFT WALLS AND SHEAR WALLS
1. COMPRESSIVE STRENGTH (28 DAYS): 5000 PSI
2. MAXIMUM SLUMP: 4 INCHES
3. MINIMUM CEMENTITIOUS MATERIALS CONTENT: 564 LB./CU. YD.
4. MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP).
5. MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.45
6. MAXIMUM COARSE AGGREGATE SIZE: 3/4 INCH
7. AIR CONTENT: N/A

SHORING/RE-SHORING

THE SHORING AND/OR RE-SHORING DESIGN FOR CONCRETE FRAME SYSTEMS IS THE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY SHORING FOR SLABS, BEAMS, AND GIRDERS SHALL BE ADEQUATE TO CARRY THE TOTAL WEIGHT OF THE SLAB-BEAM-GIRDER SYSTEM AND ANY TEMPORARY CONSTRUCTION LOADS TO BE IMPOSED ON THE STRUCTURAL SYSTEM. SHORING FOR A LEVEL SHALL NOT BE REMOVED UNTIL THE CONCRETE AT THAT LEVEL HAS ATTAINED THE SPECIFIED COMPRESSIVE STRENGTH (F'C). REMOVAL OF SHORING AND/OR RESHORING SHALL NOT CAUSE OVERSTRESSING OF ANY STRUCTURAL ELEMENTS.

CONCRETE SLABS ON GRADE

SLABS ON GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI 302.1R).

PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL THE CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE.

PROVIDE CURING OF CONCRETE SLABS IMMEDIATELY AFTER FINISHING USING A SPRAYED ON DISSIPATING-RESIN LIQUID CURING COMPOUND CONFORMING TO ASTM C309, UNLESS NOTED OTHERWISE. ALL SCUFFS OR ABRASIONS TO THE CURING MEMBRANE SHALL BE RECOATED DAILY. OTHER CURING METHODS MAY BE USED WITH APPROVAL BY THE STRUCTURAL ENGINEER.

SLABS ON GRADE IN OFFICE AREAS SHALL RECEIVE A SMOOTH TROWEL FINISH, AND BE PLACED TO ACHIEVE THE FOLLOWING MINIMUM TOLERANCES:

OVERALL VALUES:	FF = 25	FL = 20
LOCAL VALUES:	FF = 20	FL = 15

THE MINIMUM LOCAL AREA SHALL BE ANY BAY DEFINED BY COLUMN LINES.

UNLESS SHOWN OR NOTED OTHERWISE, PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS-ON-GRADE AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS. PROVIDE JOINTS AT ALL COLUMN LOCATIONS. LOCATE JOINTS TO ELIMINATE RE-ENTRANT CORNERS AND TO CREATE SQUARE OR RECTANGULAR SECTIONS WITH MAXIMUM LONG SIDE TO SHORT SIDE RATIO OF 1.5 TO 1.

CONTROL JOINTS IN SLABS ON GRADE SHALL NOT RECEIVE JOINT FILLER MATERIAL UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS.

CONCRETE SLABS ON METAL DECK

UNLESS INDICATED OTHERWISE ON THE DRAWINGS, CONCRETE SLABS ON METAL DECK SHALL BE PLACED AS REQUIRED TO MAINTAIN A CONSTANT SLAB THICKNESS.

CONTRACTOR SHALL ALLOW FOR THE DEFLECTION OF THE FLOOR ASSEMBLY DUE TO THE WET WEIGHT OF THE CONCRETE WHEN CALCULATING CONCRETE QUANTITIES AND SHALL INCLUDE THE COST OF ALL REQUIRED SLAB-ON-DECK CONCRETE IN THE BID PRICE.

ACTUAL CONCRETE SLAB THICKNESS SHALL NOT BE LESS THAN THE INDICATED NOMINAL THICKNESS AT ANY LOCATION. IF ANY CONDITION IS DISCOVERED THAT WOULD PREVENT PLACEMENT OF CONCRETE TO THE NOMINAL THICKNESS; CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY AND SHALL NOT PROCEED WITH CONCRETE PLACEMENT WITHOUT PRIOR REVIEW BY THE STRUCTURAL ENGINEER.

SLABS ON METAL DECK SHALL RECEIVE A SMOOTH TROWEL FINISH.

PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL THE CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE.

PROVIDE CURING OF CONCRETE SLABS IMMEDIATELY AFTER FINISHING USING A SPRAYED ON DISSIPATING-RESIN LIQUID CURING COMPOUND CONFORMING TO ASTM C309. ALL SCUFFS OR ABRASIONS TO THE CURING MEMBRANE SHALL BE RECOATED DAILY. OTHER CURING METHODS MAY BE USED WITH APPROVAL BY THE STRUCTURAL ENGINEER.

REINFORCING STEEL

REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI.

REINFORCING BAR DETAILING, FABRICATING, AND PLACING SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING STANDARDS: ACI 301, ACI 315, ACI 318 AND ACI DETAILING MANUAL (SP66).

UNLESS A GREATER AMOUNT OF COVER IS INDICATED ON THE DRAWINGS, PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3 INCHES
FOUNDATION TOP REINFORCEMENT:	2 INCHES
FOUNDTION BOTTOM AND SIDE REINFORCEMENT:	3 INCHES
WALL REINFORCEMENT - #5 AND SMALLER:	1-1/2 INCHES
WALL REINFORCEMENT - #6 AND LARGER:	2 INCHES
COLUMN TIES:	1-1/2 INCHES
BEAM STIRRUPS AT SIDES AND BOTTOM:	1-1/2 INCHES
BEAM STIRRUPS AT TOP:	1-1/2 INCHES
BEAM TOP REINFORCEMENT:	2 INCHES
ELEVATED SLAB TOP BARS NOT EXPOSED TO EARTH OR WEATHER:	1 INCH
ELEVATED SLAB BOT BARS NOT EXPOSED TO EARTH OR WEATHER:	3/4 INCH
SLAB ON GRADE REINFORCEMENT:	MID-DEPTH

REINFORCING STEEL SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER.

WHERE LAP SPLICE LENGTHS ARE NOT SHOWN OR NOTED, PROVIDE A CLASS "B" LAP.

ALL 90 DEGREE AND 180 DEGREE BENDS SHOWN ON THE DRAWINGS SHALL BE STANDARD HOOKS, UNLESS NOTED OTHERWISE.

PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF ALL WALLS, WALL FOOTINGS AND GRADE BEAMS, UNLESS NOTED OTHERWISE. LAP SPLICE CORNER BARS WITH STRAIGHT BARS.

UNLESS OTHERWISE SHOWN OR NOTED, PROVIDE 2-#5 BARS (ONE EACH FACE) AROUND UNFRAMED OPENINGS IN CONCRETE WALLS AND GRADE BEAMS. PLACE BARS PARALLEL TO THE SIDES OF THE OPENING AND EXTEND 24" BEYOND CORNERS.

WELDABLE REINFORCING STEEL

REINFORCING STEEL WHICH IS TO BE WELDED SHALL CONFORM TO ASTM A706. WELDING OF REINFORCING STEEL, WHEN APPROVED BY THE STRUCTURAL ENGINEER, SHALL CONFORM TO THE LATEST EDITION OF AMERICAN WELDING SOCIETY STANDARD D1.4. ELECTRODES FOR SHOP AND FIELD WELDING OF REINFORCING STEEL SHALL CONFORM TO ASTM A233, CLASS E90XX.

WELDED WIRE FABRIC

WELDED WIRE FABRIC SHALL BE SMOOTH WIRE FABRIC CONFORMING TO ASTM A185. FABRIC SHALL BE SUPPLIED IN FLAT SHEETS AND LAPPED A MINIMUM OF ONE SPACE PLUS 2 INCHES.

WELDED WIRE FABRIC SHALL BE PLACED AS FOLLOWS, UNLESS NOTED OTHERWISE:
SLABS ON GRADE: 2 INCHES DOWN FROM TOP OF SLAB.
SLABS ON METAL DECK: 3/4 INCH DOWN FROM TOP OF SLAB.

CONCRETE TESTING

MAKE ONE SET OF TEST CYLINDERS IN ACCORDANCE WITH ASTM C31 FOR EACH DAY'S POUR AND FOR EACH 100 CUBIC YARDS. EACH SET SHALL INCLUDE ONE SPECIMEN TESTED AT 7 DAYS, 2 SPECIMENS TESTED AT 28 DAYS AND ONE SPECIMEN RETAINED IN RESERVE TO BE TESTED AT THE DIRECTION OF THE STRUCTURAL ENGINEER. SPARE CYLINDER MAY BE DISCARDED 90 DAYS AFTER CASTING UNLESS DIRECTED OTHERWISE BY THE STRUCTURAL ENGINEER. THIS SET OF TEST CYLINDERS SHALL BE PROTECTED AGAINST FREEZING.

WHEN THE AMBIENT TEMPERATURE IS EXPECTED TO FALL BELOW 40 DEGREES DURING THE COURSE OF A CONCRETE POUR OR SUBSEQUENT CURING PROCESS, AN ADDITIONAL SET OF CONCRETE TEST CYLINDERS SHALL BE MADE AND TESTED. THESE CYLINDERS SHALL BE STORED IMMEDIATELY ADJACENT TO, AND CURED UNDER THE SAME CONDITIONS AS THE BUILDING CONCRETE. SPECIAL CURING BOXES ARE NOT PERMITTED FOR THESE TEST CYLINDERS.

FORWARD COPIES OF TEST RESULTS TO THE ARCHITECT, STRUCTURAL ENGINEER, READY-MIX SUPPLIER AND CONTRACTOR WITHIN 24 HOURS AFTER TESTING.

MASONRY

CONCRETE MASONRY HAS BEEN DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 530).

CONCRETE MASONRY SHALL CONSIST OF HOLLOW UNITS CONFORMING TO THE REQUIREMENTS OF ASTM C90, WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1900 PSI. CONCRETE MASONRY ASSEMBLAGES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'M) OF 1,500 PSI AT 28 DAYS.

MORTAR SHALL BE TYPE S PROPORTIONED IN ACCORDANCE WITH ASTM C270.

GROUT FOR REINFORCED MASONRY SHALL BE PROPORTIONED IN ACCORDANCE WITH ASTM C476. COARSE AND FINE AGGREGATES SHALL CONFORM TO ASTM C404. USE COARSE GROUT FOR ALL GROUTING EXCEPT HIGH-LIFT POURS DEFINED BY ACI 530-05 TABLE 1.16.1, WHERE FINE GROUT SHALL BE USED.

PROVIDE 9-GAUGE GALVANIZED STEEL WIRE JOINT REINFORCEMENT IN ALL MASONRY CONSTRUCTION. REINFORCEMENT SHALL BE CONTINUOUS AND BE LAPPED EIGHT INCHES AT SPLICES. CUT REINFORCEMENT AT ALL CONTROL AND EXPANSION JOINTS. SPACE REINFORCEMENT AT 8" ON CENTER FOR PARAPETS AND BELOW GROUND FLOOR ELEVATION. ELSEWHERE SPACE REINFORCEMENT AT 16 INCHES ON CENTER.

BEAMS AND LINTELS SHALL BEAR A MINIMUM OF 8 INCHES ONTO SUPPORTING MASONRY, UNLESS NOTED OTHERWISE. BEARING FOR ALL BEAMS, LINTELS, JOISTS, ETC. SHALL BE GROUTED SOLID A MINIMUM OF ONE COURSE (8 INCHES) BELOW BEARING ELEVATION, UNLESS NOTED OTHERWISE.

EXPANSION ANCHORS

EXPANSION ANCHORS SHALL BE HILTI “KWIK BOLT TZ” OR AN EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER, UNO.

ANCHOR FINISH SHALL BE CARBON STEEL FOR INTERIOR EXPOSURES AND AISI 316 STAINLESS STEEL FOR EXTERIOR AND BELOW GRADE EXPOSURES, UNO.

ANCHORS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS BY INSTALLERS TRAINED BY THE MANUFACTURER'S REPRESENTATIVE.

ANCHORS SHALL NOT BE INSTALLED IN CONCRETE OR MASONRY UNTIL IT HAS ATTAINED ITS SPECIFIED MINIMUM 28 DAY COMPRESSIVE STRENGTH.

ADHESIVE ANCHORS FOR SOLID SUBSTRATES

ADHESIVE ANCHORS FOR SOLID SUBSTRATES SHALL BE HILTI "HIT-HY 200" OR AN EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER, UNO.

ANCHORS SHALL BE ASTM A36 THREADED RODS FOR INTERIOR EXPOSURES AND AISI 316 STAINLESS STEEL FOR EXTERIOR AND BELOW GRADE EXPOSURES, UNO.

ANCHORS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS BY INSTALLERS TRAINED BY THE MANUFACTURER'S REPRESENTATIVE.

ADHESIVE ANCHORS SHALL NOT BE INSTALLED IN CONCRETE OR MASONRY UNTIL IT HAS ATTAINED ITS SPECIFIED MINIMUM 28 DAY COMPRESSIVE STRENGTH.

MINIMUM EMBEDMENT DEPTH SHALL BE 8 BOLT DIAMETERS UNLESS NOTED OTHERWISE.

ADHESIVE ANCHORS FOR HOLLOW SUBSTRATES

ADHESIVE ANCHORS FOR HOLLOW SUBSTRATES SHALL BE HILTI "HIT-HY 70" WITH HILTI “HIT-SC” SCREEN TUBE OR AN EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER, UNO.

ANCHORS SHALL BE ASTM A36 THREADED RODS FOR INTERIOR EXPOSURES AND AISI 316 STAINLESS STEEL FOR EXTERIOR AND BELOW GRADE EXPOSURES, UNO.

ANCHORS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS BY INSTALLERS TRAINED BY THE MANUFACTURER'S REPRESENTATIVE.

NON-SHRINK GROUT

GROUT SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT (WHEN TESTED IN ACCORDANCE WITH THE LATEST EDITION OF ASTM C827 OR CRD-C621), PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS AND FLUIDITY IMPROVING COMPOUNDS. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'C) OF 5,000 PSI IN 28 DAYS.

WATERSTOPS

SELF-EXPANDING STRIP WATER STOPS SHALL BE VOLCLAY WATERSTOP-RX 101 UNLESS NOTED OTHERWISE. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

PVC WATERSTOPS

PROVIDE FACTORY MADE WATERSTOP FABRICATIONS FOR ALL CHANGES OF DIRECTION, INTERSECTIONS, AND TRANSITIONS LEAVING ONLY STRAIGHT BUTT JOINT SPLICES FOR THE FIELD.

PROVIDE HOG RINGS OR GROMMETS SPACED AT 12 INCHES ON CENTER ALONG LENGTH OF WATERSTOP.

PROVIDE TEFLON COATED THERMOSTATICALLY CONTROLLED WATERSTOP SPLICING IRONS FOR FIELD BUTT SPLICES.

FIELD BUTT SPLICES SHALL BE HEAT FUSED WELDED USING A TEFLON COATED THERMOSTATICALLY CONTROLLED WATERSTOP SPLICING IRON AT APPROXIMATELY 380 DEGREES F. FOLLOW APPROVED MANUFACTURER RECOMMENDATIONS.

LAPPING OF WATERSTOP, USE OF ADHESIVES, OR SOLVENTS SHALL NOT BE ALLOWED.

CENTER WATERSTOP IN JOINT AND SECURE WATERSTOP IN CORRECT POSITION USING HOG RINGS OR GROMMETS SPACED AT 12 INCHES ON CENTER ALONG THE LENGTH OF THE WATERSTOP AND WIRE TIE TO ADJACENT REINFORCING STEEL.

MASTIC COATING

MASTIC COATING FOR PROTECTION OF INDICATED ITEMS SHALL BE BITUMASTIC 50 COAL TAR MASTIC BY CARBOLINE OR EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER. INSTALL AT LOCATIONS INDICATED ON DRAWINGS.

UNLESS NOTED OTHERWISE, APPLY MASTIC TO A COATING THICKNESS OF 18 MILS. PROVIDE FULL COVERAGE OVER ITEMS INDICATED TO RECEIVE COATING.

STRUCTURAL STEEL - ASD

STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE ANSI/AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION WITH AMENDMENTS, AND THE AISC 303 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, LATEST EDITION WITH AMENDMENTS.

STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992.

STRUCTURAL STEEL PLATES AND ROLLED SHAPES OTHER THAN WIDE-FLANGE SHAPES SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE B.

STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B.

ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE.

BOLTED CONNECTIONS SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS OF THE ENGINEERING FOUNDATION. BOLTED CONNECTIONS FOR STRUCTURAL STEEL MEMBERS SHALL BE MADE WITH 3/4" DIAMETER A325 BOLTS, UNLESS NOTED OTHERWISE. BOLTED CONNECTIONS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION, EXCEPT BOLTED CONNECTIONS IN BRACE ELEMENTS ARE TO BE FULLY PRETENSIONED WITH CLASS A FAYING SURFACES.

WELDING PROCEDURES SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE FOR STEEL ANSI/AWS D1.1.

WELDED CONNECTIONS USING ASTM A992 STEEL AS A BASE METAL SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES. UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS, OTHER WELDED CONNECTIONS MAY BE MADE WITH STANDARD E70XX ELECTRODES.

STRUCTURAL STEEL THAT RECEIVES FINISH PAINT SHALL BE SHOP-PRIMED WITH A RUST-INHIBITING PRIMER, UNLESS NOTED OTHERWISE ON THE DRAWINGS. CONTRACTOR SHALL VERIFY PRIMER IS COMPATIBLE WITH FINISH COAT SYSTEM SPECIFIED BY THE ARCHITECT. COORDINATE FINISH PAINTING REQUIREMENTS WITH THE ARCHITECT.

STRUCTURAL STEEL SHALL BE SHOP PRIMED, UNO.

STRUCTURAL STEEL NOTED TO BE GALVANIZED SHALL BE HOT-DIP GALVANIZED IN CONFORMANCE WITH ASTM A123.

DO NOT PAINT OR GALVANIZE THE FOLLOWING SURFACES:
1. SURFACES TO BE WELDED.
2. SURFACES TO RECEIVE BOLTED SLIP-CRITICAL CONNECTIONS.
3. SURFACES TO RECEIVE SHEAR STUD CONNECTIONS.
4. SURFACES TO RECEIVE SPRAYED-ON FIREPROOFING.

ALL ABRASIONS TO GALVANIZED SURFACES OR SURFACES TO RECEIVE AN ARCHITECTURAL FINISH COAT SHALL BE TOUCHED-UP AFTER ERECTION IS COMPLETE. FOR PAINTED STEEL, USE A PRIMER EQUIVALENT TO THE SHOP PAINT. FOR GALVANIZED STEEL, USE A ZINC-RICH COLD-GALVANIZING PAINT.

DESIGN CONNECTIONS NOT SHOWN IN ACCORDANCE WITH THE ASD SPECIFICATION AND MANUAL OF STEEL CONSTRUCTION. UNLESS NOTED OTHERWISE ON THE DRAWINGS, DESIGN BEAM CONNECTIONS NOT SHOWN, TO SUPPORT A MINIMUM OF A 10 KIP SHEAR REACTION. PROVIDE NO LESS THAN 2 BOLTS IN ANY SINGLE LINE OF BOLTS, UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.

SEPARATION OF DISSIMILAR METALS

DISSIMILAR METALS SHALL BE ELECTRICALLY ISOLATED TO PREVENT GALVANIC CORROSION VIA NON-CONDUCTIVE WASHERS, GASKETS, COATINGS, OR EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER, UNO.

STEEL ROOF DECK

PROVIDE AND ERECT STEEL DECK IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL DECK INSTITUTE'S SPECIFICATIONS AND CODE OF STANDARD PRACTICE.

DECK MANUFACTURER SHALL PROVIDE ALL ROOF DECK ACCESSORIES, INCLUDING CLOSURES, SUPPLEMENTARY FRAMING, AND SUMP PANS, WHETHER OR NOT SUCH ITEMS ARE DETAILED ON THE CONTRACT DOCUMENTS.

FASTEN ROOF DECK TO STEEL SUPPORTS AS INDICATED ON THE DRAWINGS. PERFORM WELDING IN ACCORDANCE WITH ANSI/AWS D1.3.

ROOF DECK SHALL BE INSTALLED IN A MINIMUM THREE SPAN CONDITION, UNO.

PROVIDE STEEL ROOF DECK WITH FINISH AS INDICATED ON THE DRAWINGS.

STEEL FLOOR DECK

PROVIDE AND ERECT STEEL DECK IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL DECK INSTITUTE'S SPECIFICATIONS AND CODE OF STANDARD PRACTICE.

DECK MANUFACTURER SHALL PROVIDE ALL FLOOR DECK ACCESSORIES, SUCH AS EDGE FORMS, CLOSURES, FILLERS AND POUR STOPS FOR A COMPLETE INSTALLATION, WHETHER OR NOT SUCH ITEMS ARE DETAILED ON THE CONTRACT DOCUMENTS.

FASTEN FLOOR DECK TO STEEL SUPPORTS AS INDICATED ON THE DRAWINGS. PERFORM WELDING IN ACCORDANCE WITH ANSI/AWS D1.3.

STEEL FLOOR DECK IS INTENDED TO BE INSTALLED IN AN UNSHORED CONDITION UNLESS NOTED OTHERWISE. DECK SUPPLIER SHALL REVIEW ALL SPAN CONDITIONS AND CONFIRM THAT THE SUPPLIED PRODUCT IS SUFFICIENT TO SAFELY SUPPORT THE WET WEIGHT OF CONCRETE AND ASSOCIATED CONSTRUCTION LIVE LOADS WITHOUT THE NEED FOR SHORING.

FLOOR DECK UNITS SHALL BE INSTALLED IN A MINIMUM THREE SPAN CONDITION, UNO.

PROVIDE INTERIOR STEEL FLOOR DECK WITH FINISH AS INDICATED ON THE DRAWINGS.

PROVIDE FLOOR DECK SUPPORTING EXTERIOR SLABS WITH A GALVANIZED FINISH IN ACCORDANCE WITH ASTM A924 G90.

ELEVATORS

CONTRACTOR SHALL COORDINATE ELEVATOR PITS, SHAFTS, SLAB OPENINGS, FRAMING LOCATIONS, GUIDE RAIL SUPPORTS, DIVIDER BEAMS, HOIST BEAMS AND SUMP PITS WITH ELEVATOR SUPPLIER PRIOR TO CONSTRUCTION AS REQUIRED FOR PROPER INSTALLATION AND OPERATION.

COORDINATE ANY REQUIRED STRUCTURAL MODIFICATIONS WITH THE STRUCTURAL ENGINEER PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY STRUCTURAL ELEMENTS.

COLD-FORMED STEEL FRAMING

THE TERMS “LIGHT GAUGE” AND “COLD-FORMED” SHALL BE CONSIDERED EQUIVALENT AND MAY BE USED INTERCHANGEABLY WHEN REFERENCING FRAMING MATERIALS FABRICATED FROM THIN SHEET STEEL.

THE SUPPLIER OF THE COLD-FORMED STEEL FRAMING SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL MEMBERS, COMPONENTS, ASSEMBLIES AND CONNECTIONS.

STRUCTURAL PROPERTIES OF FRAMING MEMBERS SHALL BE CALCULATED IN ACCORDANCE WITH REQUIREMENTS OF THE CURRENT AMERICAN IRON AND STEEL INSTITUTE (AISI) SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.

ALL COLD-FORMED STEEL FRAMING MATERIALS SHALL CONFORM TO ASTM A653 WITH ZINC COATING CONFORMING TO ASTM A924. PLATES, GUSSETS AND CLIPS SHALL HAVE A MINIMUM YIELD STRENGTH OF 40 KSI AND SHALL HAVE THICKNESS AS REQUIRED FOR SPECIFIC CONDITIONS. TRACKS, BRACING, FURRING AND BRIDGING SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI.

ALL FASTENERS SHALL CONFORM TO ASTM A90. ALL SCREWS SHALL BE SELF-TAPPING SELF-DRILLING.

COLD-FORMED STEEL FRAMING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND AS REVIEWED BY THE STRUCTURAL ENGINEER.

COLD-FORMED STEEL FRAMING SYSTEM SHALL BE DESIGNED TO ACCOMMODATE CONSTRUCTION TOLERANCES, DEFLECTION OF BUILDING STRUCTURAL MEMBERS, AND CLEARANCES OF INTENDED OPENINGS. PROVIDE DEFLECTION ALLOWANCE IN STUD TRACK, DIRECTLY BELOW BUILDING FRAMING FOR NON-LOAD BEARING FRAMING.

LOAD BEARING STUDS SHALL BE ERECTED ONE PIECE FULL LENGTH - SPLICING OF STUDS IS NOT PERMITTED.

INSTALL WALL STUD BRIDGING PER THE MANUFACTURER'S REQUIREMENTS (4'-0" O.C. MAXIMUM).

INSTALL JOISTS DIRECTLY OVER BEARING STUDS, UNLESS NOTED OTHERWISE.

INSTALL JOIST BRIDGING PER THE MANUFACTURER'S REQUIREMENTS (8'-0" O.C. MAXIMUM).

PROVIDE JOIST END BLOCKING OR BRACING AND PROVIDE WEB STIFFENERS AT BEARING ENDS AND CONCENTRATED LOADS PER THE MANUFACTURER'S REQUIREMENTS.

CORNERS SHALL BE CONSTRUCTED USING A MINIMUM OF 3 STUDS. DOUBLE STUDS (MINIMUM, OR GREATER NUMBER AS REQUIRED BY SPECIFIC CONDITIONS) SHALL BE PROVIDED AT WALL OPENINGS, DOORS AND WINDOW JAMBS.

DOUBLE JOIST BOX HEADERS (SIZE AS REQUIRED FOR SPECIFIC CONDITIONS) SHALL BE PROVIDED ABOVE ALL OPENINGS IN LOAD BEARING WALLS. DOUBLE JOIST BOX HEADERS SHALL BEAR ON PARTIAL HEIGHT STUDS AND HAVE ENDS FASTENED TO ADJACENT FULL HEIGHT STUDS.

FRAMING MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES, UNLESS LARGER SIZES OR MORE STRINGENT REQUIREMENTS ARE SHOWN ON THE DRAWINGS OR REQUIRED BY THE SUPPLIER'S COLD-FORMED STEEL DESIGN ENGINEER:

	GAUGE	YIELD (KSI)	AREA (IN2)	SECTION MODULUS SX (IN3)	MOMENT OF INERTIA IX (IN4)
4" INTERIOR STUDS (LOAD BEARING)	20	40	0.271	0.335	0.657
4" PERIMETER STUDS (NON-LOAD BEARING)	16	40	0.452	0.547	1.073
6" INTERIOR STUDS (LOAD BEARING)	20	40	0.341	0.584	1.729
6" PERIMETER STUDS (NON-LOAD BEARING)	16	40	0.565	0.961	2.846
8" JOIST	16	40	0.678	1.452	5.75

DESIGN DATA

THE BUILDING STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE INDIANA BUILDING CODE.

SEE LOAD MAPS FOR FLOOR LOADING INFORMATION

SNOW LOAD DESIGN DATA

1. GROUND SNOW LOAD (PG) = 20 PSF
2. LOW-SLOPE ROOF SNOW LOAD (PF) = 20.0 PSF
3. SNOW EXPOSURE FACTOR (CE) = 1.0
4. THERMAL FACTOR (CT) = 1.0
5. SNOW LOAD IMPORTANCE FACTOR (IS) = 1.2

WIND LOAD DESIGN DATA

1. BASIC WIND SPEED (3-SECOND GUST) = 90 MPH
2. WIND LOAD IMPORTANCE FACTOR (IW) = 1.15
3. WIND EXPOSURE = B
4. WIND DESIGN PRESSURE (P) = VARIES WITH HEIGHT AND LOCATION

EARTHQUAKE DESIGN DATA

1. SHORT PERIOD SPECTRAL RESPONSE (SS) = 0.151
2. 1-SECOND SPECTRAL RESPONSE (S1) = 0.060
3. SEISMIC IMPORTANCE FACTOR (IE) = 1.5
4. OCCUPANCY CATEGORY = IV
5. SEISMIC DESIGN CATEGORY = C
6. SITE CLASSIFICATION = C
7. SHORT PERIOD SPECTRAL RESPONSE COEFFICIENT (SDS) = 0.121
8. 1-SECOND SPECTRAL RESPONSE COEFFICIENT (SD1) = 0.068
9. BASIC STRUCTURAL SYSTEM / SEISMIC RESISTING SYSTEM: BUILDING FRAME / SPECIAL REINFORCED CONCRETE SHEAR WALLS
10. ANALYSIS PROCEDURE UTILIZED = EQUIVALENT LATERAL FORCE PROCEDURE
11. RESPONSE MODIFICATION COEFFICIENT (R) = 5.0
12. SEISMIC RESPONSE COEFFICIENT (CS) = 0.036

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

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Revisions: | Date

VA
SPS BASEMENT ADDITION
2121 LAKE AVE., FORT WAYNE, IN 46805

ARCHITECT/ENGINEERS:

AMERICAN STRUCTUREPOINT INC.
7260 SHADELAND STATION
INDIANAPOLIS, IN 46256-3957
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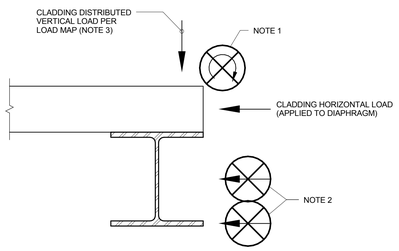
CONSULTANTS:

ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title	STRUCTURAL GENERAL NOTES
Approved: Project Director	
Project Title	SPS BASEMENT ADDITION
Location	2121 LAKE AVE., FORT WAYNE, IN 46805
Date	8/15/2014
Checked	ABZ
Drawn	DAE
Project Number	2010.00629
Building Number	01
Drawing Number	SS-002

Office of Construction and Facilities Management
VA Department of Veterans Affairs

VA FORM 08-6231



NOTES:
1) DO NOT APPLY MOMENTS TO STRUCTURE.
2) DO NOT APPLY HORIZONTAL LOADS BELOW THE STRUCTURAL DIAPHRAGM UNLESS BOTTOM CHORD BRACING (DESIGNED BY CONTRACTOR) HAS BEEN PROVIDED.
3) VERTICAL LOADS APPLIED AS POINT LOADS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO SHOP DRAWING SUBMISSION.

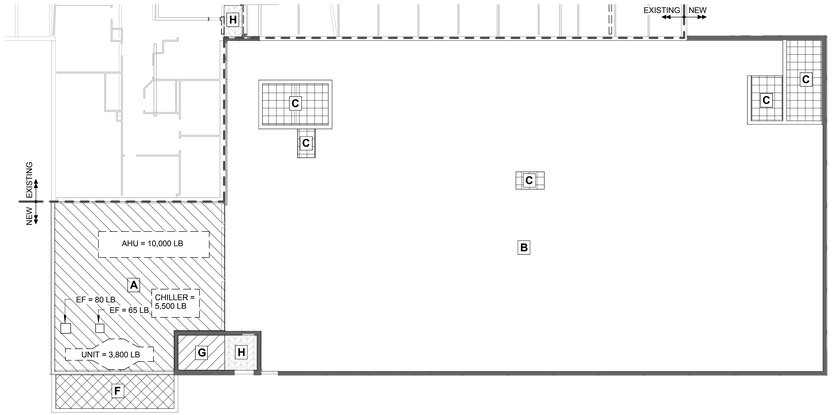
1 SS-003 **TYPICAL CLADDING LOAD APPLICATION**
N.T.S.

UNIFORM LOAD SCHEDULE

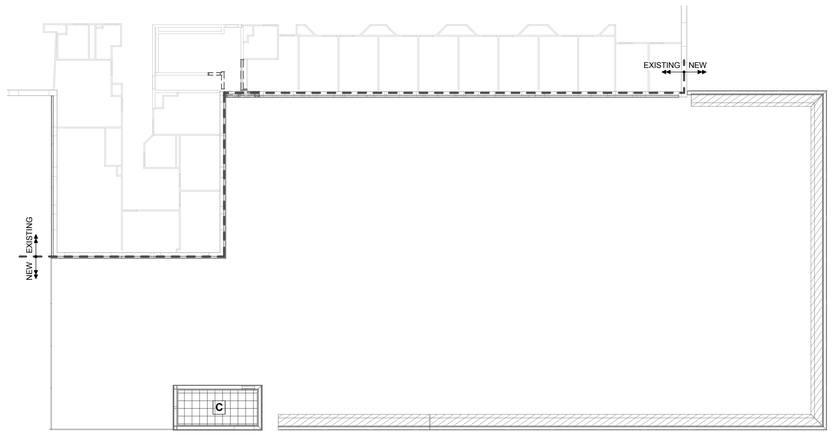
MARK	DESCRIPTION	LOADS		
		DEAD, PSF	LIVE, PSF	SNOW, PSF
A	MECHANICAL ROOM	120 PSF	200 PSF	
B	1ST FLOOR	120 PSF	100 PSF	20 PSF + DRIFT
C	TEMPORARY ROOF	15 PSF	20 PSF	20 PSF + DRIFT
D	FUTURE FLOORS	120 PSF	100 PSF	
E	FUTURE MECHANICAL ROOM	120 PSF	200 PSF	20 PSF
F	AREAWAY GRATING	10 PSF	40 PSF	
G	STAIRS	60 PSF	100 PSF	
H	PUBLIC AREAS	120 PSF	100 PSF	

NOTES:
1. UNLESS OTHERWISE NOTED, FLOOR FRAMING HAS BEEN DESIGNED UTILIZING LIVE LOAD REDUCTIONS TO THE EXTENT ALLOWED BY THE BUILDING CODE.
2. FOR SNOW LOADS DESIGN FOR WORST CASE OF UNIFORM SNOW OR SNOW DRIFT CONDITION.

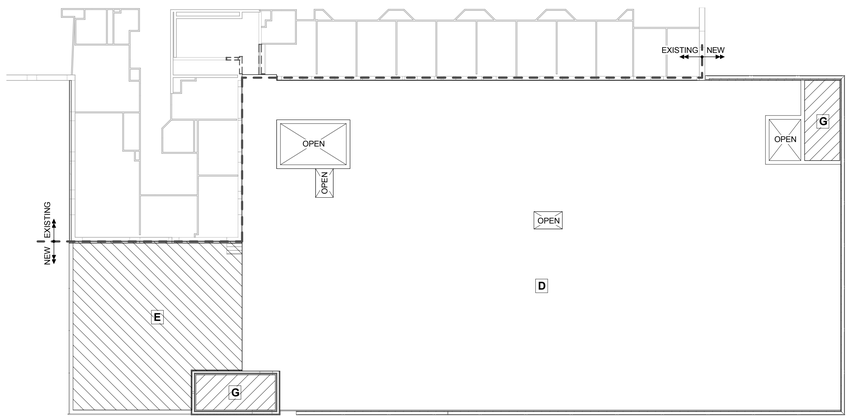
FUTURE ELEVATED FLOORS NOTE:
THE VA REQUESTS THAT ALL FUTURE FRAMED FLOORS SHALL BE OF CONCRETE CONSTRUCTION SIMILAR IN DESIGN AS NOTED IN THESE DOCUMENTS. THE FOUNDATIONS, COLUMNS AND SHEAR WALLS HAVE BEEN DESIGNED ACCORDINGLY



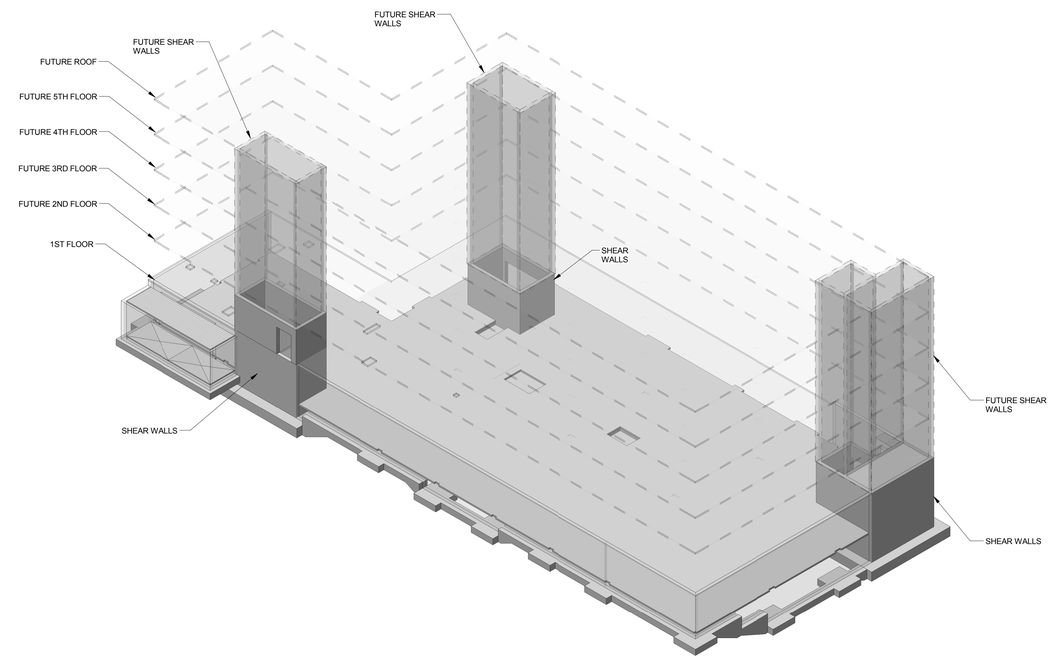
3 SS-003 **FIRST LEVEL LOAD MAP**
1/16" = 1'-0"



4 SS-003 **STAIR TOWER ROOF LOAD MAP**
1/16" = 1'-0"



5 SS-003 **FUTURE UPPER LEVELS LOAD MAP**
1/16" = 1'-0"



2 SS-003 **LATERAL SYSTEM ISOMETRIC**

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Revisions:	Date

VA

SPS BASEMENT ADDITION

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CONSULTANTS:

ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title: LOAD MAPS
Approved: Project Director
Project Title: SPS BASEMENT ADDITION
Location: 2121 LAKE AVE., FORT WAYNE, IN 46805
Date: 8/15/2014 | Checked: ABZ | Drawn: DAE
Project Number: 2010.00629
Building Number: 01
Drawing Number: SS-003

Office of Construction and Facilities Management
VA Department of Veterans Affairs

VA FORM 08-6231

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SPECIAL INSPECTION SERVICES SCHEDULE - SOILS AND EARTHWORK

REFERENCED STANDARDS PER IBC, CHAPTER 17

VERIFICATION AND INSPECTION TASK	TEST/INSPECTION	DESCRIPTION OF TEST/INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
FOOTING SUBGRADE	TEST	REFERENCE EARTHWORK SPECIFICATION FOR EXTENT OF TESTING REQUIRED	Y	PERIODIC
COMPACTION OF SOILS	TEST	REFERENCE EARTHWORK SPECIFICATION FOR EXTENT OF TESTING REQUIRED	Y	PERIODIC
CONTROLLED STRUCTURAL FILL	TEST	REFERENCE EARTHWORK SPECIFICATION FOR EXTENT OF TESTING REQUIRED	Y	PERIODIC
FOOTING SUBGRADE MATERIAL	INSPECTION	INSPECT SOILS BELOW FOUNDATIONS AND SLABS FOR ADEQUATE COMPACTION AND BEARING CAPACITY PROPR TO PLACEMENT OF CONCRETE.	Y	PERIODIC
EXCAVATION	INSPECTION	VERIFY EXCAVATIONS ARE EXTENDED TO THE PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	Y	PERIODIC
CLASSIFICATION OF CONTROLLED FILL	INSPECTION	1) INSPECT PLACEMENT, LIFT THICKNESS AND COMPACTION OF CONTROLLED FILL. 2) VERIFY EXTENT AND SLOPE OF FILL PLACEMENT.	Y	PERIODIC
USE OF PROPER MATERIALS	INSPECTION	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	Y	CONTINUOUS
OBSERVATION OF SUBGRADE	INSPECTION	PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUGBRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	Y	PERIODIC

SPECIAL INSPECTION SERVICES SCHEDULE - SHALLOW FOUNDATIONS

REFERENCED STANDARDS PER IBC, CHAPTER 17

VERIFICATION AND INSPECTION TASK	TEST/INSPECTION	DESCRIPTION OF TEST/INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
CONCRETE PLACEMENT	INSPECTION	THE INSPECTOR MUST BE PRESENT FULL TIME DURING THE ENTIRE PLACEMENT OF THE FIRST 2 SHALLOW FOUNDATION CONCRETE POURS AND THEN MUST BE PRESENT AT THE START OF 50% OF OTHER CONCRETE POURS.	Y	PERIODIC
FOOTING SUBGRADE	INSPECTION	VERIFY APPROVAL OF THE FOOTING SUBGRADE PRIOR TO PLACEMENT OF FOUNDATION CONCRETE.	Y	PERIODIC
FORMWORK	INSPECTION	VERIFY THAT FORMS ARE PLUMB AND STRAIGHT, BRACED AGAINST MOVEMENT, AND LUBRICATED FOR REMOVAL.	Y	PERIODIC
EARTH-FORMED FOUNDATION	INSPECTION	FOR EARTH-FORMED FOUNDATIONS, VERIFY THAT EARTH FORMS ARE SUFFICIENTLY UNIFORM TO ALLOW FOR PROPER DIMENSIONS AND REQUIRED CONCRETE COVER OVER REINFORCEMENT.	Y	PERIODIC
DIMENSIONS	INSPECTION	VERIFY FOUNDATION DIMENSIONS.	Y	PERIODIC
EMBEDED ITEMS	INSPECTION	VERIFY ANCHOR RODS AND/OR DOWELS ARE INSTALLED WITH THE EMBEDMENT AND PROJECTED LENGTHS AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC
REINFORCEMENT	INSPECTION	VERIFY FOUNDATION REINFORCEMENT PRIOR TO PLACEMENT OF CONCRETE.	Y	PERIODIC
CONCRETE	INSPECTION	VERIFY CONCRETE PLACEMENT AS OUTLINED IN THIS INSPECTION PLAN.	Y	PERIODIC

SPECIAL INSPECTION SERVICES SCHEDULE - CONCRETE CONSTRUCTION

REFERENCED STANDARDS PER IBC, CHAPTER 17

VERIFICATION AND INSPECTION TASK	TEST/INSPECTION	DESCRIPTION OF TEST/INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
MATERIAL TESTING	TEST	REFERENCE CAST-IN-PLACE CONCRETE SPECIFICATION FOR EXTENT OF TESTING REQUIRED	Y	-
QUALITY CONTROL	INSPECTION	VERIFY THAT QUALITY CONTROL TESTING IS PROVIDED IN ACCORDANCE WITH THE PROJECT REQUIREMENTS.	Y	PERIODIC
REINFORCING STEEL	INSPECTION	INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS (WHEN USED) AND PLACEMENT AS FOLLOWS:		
		VERIFY THAT REINFORCEMENT SURFACES ARE FREE OF EXCESS RUST OR OTHER COATINGS THAT MAY ADVERSELY AFFECT BONDING CAPACITY. IF OILING OF FORMS IS REQUIRED, VERIFY THAT IT IS APPLIED BEFORE REINFORCING IS PLACED.	Y	PERIODIC
		VERIFY REINFORCING BARS FOR COMPLIANCE WITH CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS AS FOLLOWS:		
		MATERIAL GRADE, SIZE, QUANTITY, SPACING, AND LAYERING; BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS; PROPER HOOK TYPE AND LOCATION; SPLICE LOCATIONS AND REQUIRED LENGTH OF LAP; PROPER CLEARANCE AND COVER REQUIREMENTS FROM CONCRETE SURFACES; SUFFICIENT SPACING BETWEEN REINFORCEMENT FOR CONCRETE PLACEMENT; VERIFY THAT UNSCHEDULED/ADDITIONAL REINFORCING BARS SHOWN ON PLAN, IN DETAIL, OR SPECIFIED IN NOTES ARE PROVIDED AND ARE IN COMPLIANCE WITH CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.	Y	PERIODIC
		MECHANICAL SPLICES:		
		(TENSION AND/OR COMPRESSION) ON THE PROJECT. VERIFY COMPLIANCE WITH SPECIFICATIONS AND CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION. VERIFY THAT THE MANUFACTURER IS PRESENT FOR THE FIRST INSTALLATION OF EACH TYPE OF SPLICE ON THE PROJECT.	Y	CONTINUOUS
		VERIFY THAT WELDED WIRE REINFORCEMENT IS COMPOSED OF FLAT SHEETS, HAS PROPER WIRE GAGE AND SPACING, IS PROPERLY SUPPORTED, AND IS PROPERLY LAPPED.	Y	PERIODIC
		INSPECT HEADED STUD SHEAR REINFORCEMENT TO ENSURE THAT IT CONFORMS TO THE PROJECT REQUIREMENTS.		
		REVIEW TYPE AND SPACING; VERIFY THAT REINFORCING IS ADEQUATELY SUPPORTED TO RESIST DISPLACEMENT OR SHIFTING DURING CONCRETE PLACEMENT; VERIFY WELDING OF REINFORCEMENT IS PERFORMED ACCORDING TO AWS REQUIREMENTS AND THAT IT IS INSPECTED BY THE TESTING LABORATORY.	Y	PERIODIC
CAST-IN-PLACE BOLTS AND ANCHOR RODS	INSPECTION	INSPECT BOLTS AND ANCHOR RODS TO BE CAST IN CONCRETE PRIOR TO PLACEMENT OF CONCRETE FOR SIZE, QUANTITY, LOCATION, POSITION AND EMBEDMENT. INSPECT DURING PLACEMENT FOR PROPER CONCRETE CONSOLIDATION AROUND BOLTS AND ANCHORS.		
		ALLOWABLE LOADS HAVE BEEN INCREASED PER PLAN NOTES	Y	CONTINUOUS
		BOLTS AND/OR ANCHOR RODS USED IN LATERAL FORCE RESISTING SYSTEM AT THE FOLLOWING LOCATIONS: <LIST GRID LOCATIONS>	N	CONTINUOUS
		<20%> OF BOLTS AND/OR ANCHOR RODS USED ELSEWHERE.	N	PERIODIC
CONCRETE MIX DESIGN	INSPECTION	REVIEW AND BECOME FAMILIAR WITH THE MIX DESIGNS SPECIFIED ON THE PROJECT. VERIFY MIX DESIGN PROVIDED BY THE CONTRACTOR IS CONSISTENT WITH PROJECT SPECIFICATIONS AT LOCATION INDICATED. REVIEW CONCRETE BATCH TICKETS TO PROPER MIX ID, TYPE OF CONCRETE AND STRENGTH FOR THE PLACEMENT LOCATION. VERIFY THAT WATER ADDED AT SITE (IF PERMITTED), DOES NOT EXCEED THAT ALLOWED BY THE MIX DESIGN.	Y	PERIODIC
INSPECTION OF FORMED AREA	INSPECTION	VERIFY THAT ALL DEBRIS AND FOREIGN MATTER HAVE BEEN REMOVED BEFORE CONCRETE IS PLACED	Y	PERIODIC
FORMWORK	INSPECTION	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. VERIFY FORMWORK USED IN COMPLIANCE WITH THE SPECIFICATIONS AND APPROVAL SHOP DRAWINGS (WHEN REQUIRED).	Y	PERIODIC
MATERIAL SAMPLING AND TESTING	TEST	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	Y	CONTINUOUS
CONCRETE PLACEMENT	INSPECTION	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES AS FOLLOWS:		
		VERIFY THE CONCRETE IS NOT OVER 90 MINUTES OLD AT TIME OF PLACEMENT; HOT-WEATHER OR COLD-WEATHER TECHNIQUES ARE BEING APPLIED AS REQUIRED; CONCRETE BEING DEPOSITED IN UNIFORM, THAT THE VERTICAL DROP DOES NOT EXCEED SIX FEET, AND THAT CONCRETE IS NOT PERMITTED TO DROP FREELY OVER REINFORCEMENT CAUSING SEGREGATION; CONCRETE IS PROPERLY VIBRATED; EMBEDDED ITEMS AND REINFORCING STEEL ARE NOT ADVERSELY ALTERED DURING PLACEMENT. NOTE IF ANYTHING WAS DISPLACED OR OTHERWISE ALTERED DURING PLACEMENT; VERIFY THAT THERE ARE NO COLD JOINTS WITHIN THE AREA OF THE POUR	Y	CONTINUOUS
CURING AND PROTECTION	INSPECTION	VERIFY THE CURING PROCESS IS AS SPECIFIED IN THE CONTRACT DOCUMENTS AND THAT ANY CURING COMPOUND USED IS APPLIED IN ACCORDANCE WITH MANUFACTURER'S PRINTED APPLICATION INSTRUCTIONS.	Y	PERIODIC
CONSTRUCTION JOINTS	INSPECTION	VERIFY THAT LOCATION OF VERTICAL AND HORIZONTAL CONSTRUCTION JOINTS FOR COMPLIANCE WITH THE CONSTRUCTION JOINT LOCATION PLAN SUBMITTED BY THE CONTRACTOR TO ENGINEER OF RECORD. VERIFY THAT REINFORCEMENT, DOWELS, KEYS, AND BULKHEADS AT CONSTRUCTION JOINTS ARE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC

SPECIAL INSPECTION SERVICES SCHEDULE - FOUNDATION WALLS AND PITS

REFERENCED STANDARDS PER IBC, CHAPTER 17

VERIFICATION AND INSPECTION TASK	TEST/INSPECTION	DESCRIPTION OF TEST/INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
CONCRETE PLACEMENT	INSPECTION	THE INSPECTOR MUST BE PRESENT FULL TIME DURING THE ENTIRE PLACEMENT OF THE FIRST 2 SHALLOW FOUNDATION CONCRETE POURS AND THEN MUST BE PRESENT AT THE START OF 50% OF OTHER CONCRETE POURS.	Y	PERIODIC
FORMWORK	INSPECTION	VERIFY THAT FORMS ARE PLUMB AND STRAIGHT, BRACED AGAINST MOVEMENT, AND LUBRICATED FOR REMOVAL.	Y	PERIODIC
DIMENSIONS	INSPECTION	VERIFY WALL/PIT DIMENSIONS.	Y	PERIODIC
EMBEDDED ITEMS	INSPECTION	VERIFY ANCHOR RODS AND/OR DOWELS ARE INSTALLED WITH THE EMBEDMENT AND PROJECTED LENGTHS AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC
REINFORCEMENT	INSPECTION	VERIFY PIT/WALL REINFORCEMENT PRIOR TO PLACEMENT OF CONCRETE	Y	PERIODIC
WATERSTOPS	INSPECTION	VERIFY WATER STOPS ARE PROPERLY INSTALLED AND ANCHORED INTO POSITION PRIOR TO PLACEMENT OF CONCRETE.	Y	PERIODIC
BACKFILL OPERATIONS	INSPECTION	VERIFY THAT FOUNDATION AND PIT WALLS WITH UNEVEN BACKFILL CONDITIONS ARE NOT BACKFILLED UNTIL FLOOR CONSTRUCTION AT TOP OF WALL IS COMPLETE OR TEMPORARY BRACING IS PROVIDED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC
CONCRETE	INSPECTION	VERIFY CONCRETE PLACEMENT AS OUTLINED IN THIS INSPECTION PLAN.	Y	PERIODIC

SPECIAL INSPECTION SERVICES SCHEDULE - STEEL CONSTRUCTION

REFERENCED STANDARDS PER IBC, CHAPTER 17

VERIFICATION AND INSPECTION TASK	TEST/INSPECTION	DESCRIPTION OF TEST/INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
FABRICATOR QUALITY CONTROL PROCESS	INSPECTION	VERIFY THE FABRICATOR MEETS AISC CERTIFIED FABRICATOR REQUIREMENT LISTED IN THE PROJECT SPECIFICATIONS.	Y	ONE-TIME
QUALITY	INSPECTION	VISUALLY INSPECT STEEL AS IT IS RECEIVED FOR POSSIBLE DAMAGE IN SHIPPING, WORKMANSHIP, AND PIECE MARKING.	Y	PERIODIC
MILL TEST REPORTS	INSPECTION	REVIEW CERTIFIED MILL TEST REPORTS AND IDENTIFICATION MARKINGS ON WIDE-FLANGE SHAPES, HIGH-STRENGTH BOLTS, NUTS AND WELDING ELECTRODES.	Y	PERIODIC
WELDED CONNECTIONS	INSPECTION	INSPECT FIELD WELDED CONNECTIONS AS FOLLOWS:		
		INSPECT <100%> OF COMPLETE JOINT PENETRATION FIELD WELDS. ULTRASONIC TESTING OF ALL COMPLETE PENETRATIONS WELDS.	N	CONTINUOUS
		INSPECT <100%> OF PARTIAL JOINT PENETRATION FIELD WELDS.	N	CONTINUOUS
		INSPECT <100%> OF MULTI-PASS FILLET FIELD WELDS.	Y	CONTINUOUS
		INSPECT <100%> OF FILLET FIELD WELDS IN LATERAL-LOAD-RESISTING BRACED FRAMES AND MOMENT FRAMES.	Y	CONTINUOUS
		INSPECT <10%> OF OTHER FILLET FIELD WELDS.	Y	PERIODIC
		PERFORM PRE-WELDING INSPECTIONS TO VERIFY THAT MATERIALS (I.E. STRUCTURAL STEEL, WELD FILLER MATERIAL, ETC.), WELDING PROCEDURES, AND WELDING PERSONNEL QUALIFICATIONS ARE APPROPRIATE.	Y	PERIODIC
		VISUALLY INSPECT FIELD WELDS ACCORDING TO AWS D1.1/D1.1M.	Y	PERIODIC
		VERIFY WELDING PROCEDURES ARE IN ACCORDANCE WITH AWS REQUIREMENTS.	Y	PERIODIC
		INSPECT PRE-HEAT, POST-HEAT AND SURFACE PREPARATION BETWEEN PASSES.	Y	PERIODIC
		VERIFY SIZE AND LENGTH OF FILLET WELDS.	Y	PERIODIC
		VERIFY THAT WELDS ARE CLEAN; WELDER IDENTIFICATION IS LEGIBLE; SIZE, LENGTH AND LOCATION OF WELDS; VERIFY THAT WELDS MEET ACCEPTANCE CRITERIA; PLACEMENT OF REINFORCEMENT FILLETS; REMOVAL OF BACKING BARS AND WELD TABS AS REQUIRED; AND REPAIR ACTIVITIES.	Y	PERIODIC
BOLTED CONNECTIONS	INSPECTION	INSPECT BOLTED CONNETIONS AS FOLLOWS:		
		INSPECT <100%> OF ALL PRE-TENSIONED AND SLIP-CRITICAL BOLTED CONNECTIONS.	N	CONTINUOUS
		INSPECT <100%> OF BOLTED CONNECTIONS IN LATERAL-LOAD-RESISTING BRACED FRAMES AND MOMENT FRAMES	N	PERIODIC
		INSPECT <20%> OF ALL OTHER BOLTED CONNECTIONS.	Y	
		FOR SLIP-CRITICAL BOLTED CONNECTIONS, VERIFY INSTALLATION IS PERFORMED IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS:	N	CONTINUOUS
		TURN-OF-NUT: ACCORDING TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS."	N	
		CALIBRATED WRENCH: ACCORDING TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS."	N	
		TWIST-OFF TENSION CONTROL BOLT: ASTM F 1852.	N	
		DIRECT-TENSION CONTROL BOLT: ASTM F 1852.	N	
		FOR ALL BOLTED CONNECTIONS, VERIFY QUANTITY, SIZE AND GRADE OF BOLTS, REQUIRED SURFACE PREPARATION AND PROPER FIT-UP OF CONNECTED ELEMENTS.	Y	PERIODIC
MEMBERS SIZES AND GRADE	INSPECTION	VERIFY THAT STEEL MEMBER SIZES AND STEEL GRADE CONFORM TO THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.	Y	PERIODIC
STEEL FRAMING, DETAILS AND CONNECTORS	INSPECTION	INSPECT STEEL FRAME FOR COMPLIANCE WITH STRUCTURAL DRAWINGS, INCLUDING BRACING, MEMBER CONFIGURATION AND CONNECTION DETAILS AS FOLLOWS:		
		CHECK THE INSTALLATION OF BASE PLATES FOR PROPER LEVELING AND VERIFY PROPER GROUT TYPE AND INSTALLATION PROCEDURES ARE FOLLOWED	Y	PERIODIC
		INSPECT <100%> OF BEAM AND GIRDER CONSTRUCTION AND ASSEMBLIES	N	PERIODIC
		INSPECT <100%> OF ALL BRACED FRAME AND MOMENT FRAME ASSEMBLIES	Y	CONTINUOUS
		INSPECT <100%> OF THE COLUMN SPLICES AND BASE JOINTS FOR VERIFICATION THAT GAPS IN CONTACT BEARING DO NOT EXCEED 1/16 INCH. GAPS GREATER THAN 1/16 INCH SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR ASSESSMENT.	N	CONTINUOUS
COMPOSITE BEAM SHEAR CONNECTORS	TEST	INSPECT COMPOSITE STEEL BEAM SHEAR CONNECTORS AS FOLLOWS:		
		OBSERVE THE WELDING OF SHEAR CONNECTORS. INSPECT STUDS FOR FULL 360 DEGREE FLASH.	Y	CONTINUOUS
		INSPECT SIZE, NUMBER, POSITIONING AND WELDING OF SHEAR CONNECTORS.	Y	CONTINUOUS
		RING TEST <100%> OF SHEAR CONNECTORS WITH A 3 LB HAMMER.	Y	PERIODIC
		BEND TEST ALL QUESTIONABLE STUDS TO 15 DEGREES.	Y	CONTINUOUS
GRATING	INSPECTION	INSPECT STEEL GRATING AS FOLLOWS:		
		VISUALLY INSPECT THE GRATING FOR DAMAGE DURING SHIPPING.	Y	PERIODIC
		VERIFY THAT THE GRATING DEPTH, TYPE OR PROPERTIES, AND FINISH COMPLY WITH THE CONTRACT DOCUMENTS AND/OR APPROVED SHOP DRAWINGS.	Y	PERIODIC
		VERIFY ALL GRATING ATTACHMENT TO THE SUPPORTING CONCRETE, STEEL, AND/OR MASONRY AS SPECIFIED IN THE CONTRACT DOCUMENTS AND/OR APPROVED SHOP DRAWINGS.	Y	PERIODIC

SPECIAL INSPECTION

SPECIAL INSPECTION IS A MANDATORY REQUIREMENT BY SECTION 1704.1 OF THE REFERENCED BUILDING CODE FOR VERIFYING CONFORMANCE OF THE INDICATED CONSTRUCTION. SPECIAL INSPECTION IS REQUIRED IN ADDITION TO ALL MATERIAL TESTS AND INSPECTIONS IDENTIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.

THE CONTRACTOR SHALL EMPLOY INDEPENDENT AGENCY(IES) OR INDIVIDUAL(S) TO PROVIDE SPECIAL INSPECTION FOR ITEMS AS INDICATED ON THE DRAWINGS.

THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON, WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER, FOR INSPECTION OF EACH PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

"PERIODIC" SPECIAL INSPECTION IS DEFINED AS "THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK." THE PERIODIC PERCENTAGES LISTED IN THE TABLES ARE A MINIMUN REQUIREMENT.

"CONTINUOUS" SPECIAL INSPECTION IS DEFINED AS "THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED."

THE CONTRACTOR SHALL COORDINATE WITH THE SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF WORK REQUIRING SPECIAL INSPECTION AND SHALL PROVIDE ACCESS TO THE SITE AND TO THE CONSTRUCTION DOCUMENTS (CURRENT DRAWINGS AND SPECIFICATIONS) FOR THE SPECIAL INSPECTOR TO CARRY OUT THE REQUIRED OPERATIONS.

THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK REQUIRING SPECIAL INSPECTION FOR CONFORMANCE TO THE CONSTRUCTION DOCUMENTS. ALL NON-CONFORMING WORK SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER.

THE SPECIAL INSPECTOR SHALL SUBMIT PERIODIC PROGRESS REPORTS TO THE CONTRACTOR AND STRUCTURAL ENGINEER IDENTIFYING ALL SPECIAL INSPECTION OPERATIONS PERFORMED. REPORTS SHALL BE SUBMITTED NO MORE THAN 7 DAYS FOLLOWING EACH SPECIAL INSPECTION OPERATION. REPORTS SHALL IDENTIFY THE ITEM(S) INSPECTED AND AN INDICATION OF WHETHER THE INSPECTED ITEMS WERE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.

AT THE COMPLETION OF ALL WORK REQUIRING SPECIAL INSPECTION, THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT TO THE CONTRACTOR AND STRUCTURAL ENGINEER STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.

FAILURE TO CORRECT NON-CONFORMING WORK SHALL CONSTITUTE A BASIS FOR REJECTION OF THE WORK AND REMOVAL AND REPLACEMENT BY THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, INCLUDING, BUT NOT LIMITED TO:

1. THE COST OF REMOVAL AND REPLACEMENT OF ALL WORK FOR WHICH SPECIAL INSPECTION WAS REQUIRED BUT NOT PERFORMED DUE TO LACK OF COMMUNICATION BY THE CONTRACTOR, INCLUDING THE COST OF TESTING AND SPECIAL INSPECTION FOR THE REPLACEMENT WORK.
2. THE COST OF ALL RELATED WORK MADE NECESSARY BY THE REMOVAL AND REPLACEMENT OF THE UNINSPECTED WORK PER ITEM 1 ABOVE.
3. THE COST FOR DESIGN PROFESSIONAL'S SERVICES RELATED TO ALL WORK FOR WHICH SPECIAL INSPECTION WAS REQUIRED BUT NOT PERFORMED AND SERVICES RELATED TO THE REPLACEMENT WORK.

CONFLICTING REQUIREMENTS, REPORTS, AND TEST RESULTS:

1. GENERAL: IF COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FOR A DECISION BEFORE PROCEEDING.
2. THE INSPECTOR'S REPORTS AND TESTING AGENCIES RESULTS SHALL HAVE PRECEDENCE OVER REPORTS AND TEST RESULTS PROVIDED BY THE CONTRACTOR.
3. WHERE A CONFLICT EXISTS BETWEEN THE CONSTRUCTION DOCUMENTSAND APPROVED SHOP DRAWINGS / SUBMITTAL DATA, THE CONSTRUCTION DOCUMENTS SHALL GOVERN UNLESS THE SHOP DRAWINGS / SUBMITTAL DATA ARE MORE RESTRICTIVE. ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
4. WHERE A CONFLICT EXISTS BETWEEN INDIVIDUAL SPECIFICATION SECTIONS AND THIS SPECIFICATION, PROVIDE TESTING AND INSPECTION TO SATISFY THE MORE STRINGENT REQUIREMENTS.

PROVIDE SPECIAL INSPECTION FOR THE FOLLOWING CONSTRUCTION:

SOILS AND EARTHWORK
SHALLOW FOUNDATIONS
FOUNDATION WALLS AND PITS
CONCRETE
STRUCTURAL STEEL

SEE TABLE(S) ON THE DRAWINGS FOR STRUCTURAL SPECIAL INSPECTION PROGRAM REQUIREMENTS. REFER TO OTHER DISCIPLINES CONSTRUCTION DOCUMENTS FOR SPECIAL INSPECTION REQUIREMENTS FOR NON-STRUCTURAL WORK.

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Revisions:	Date

VA

SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

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CONSULTANTS:

ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title: STRUCTURAL SPECIAL INSPECTION REQUIREMENTS

Approved: Project Director

Project Title: SPS BASEMENT ADDITION

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Project Number: 2010.00629

Building Number: 01

Drawing Number: SS-004

Office of Construction and Facilities Management

VA Department of Veterans Affairs

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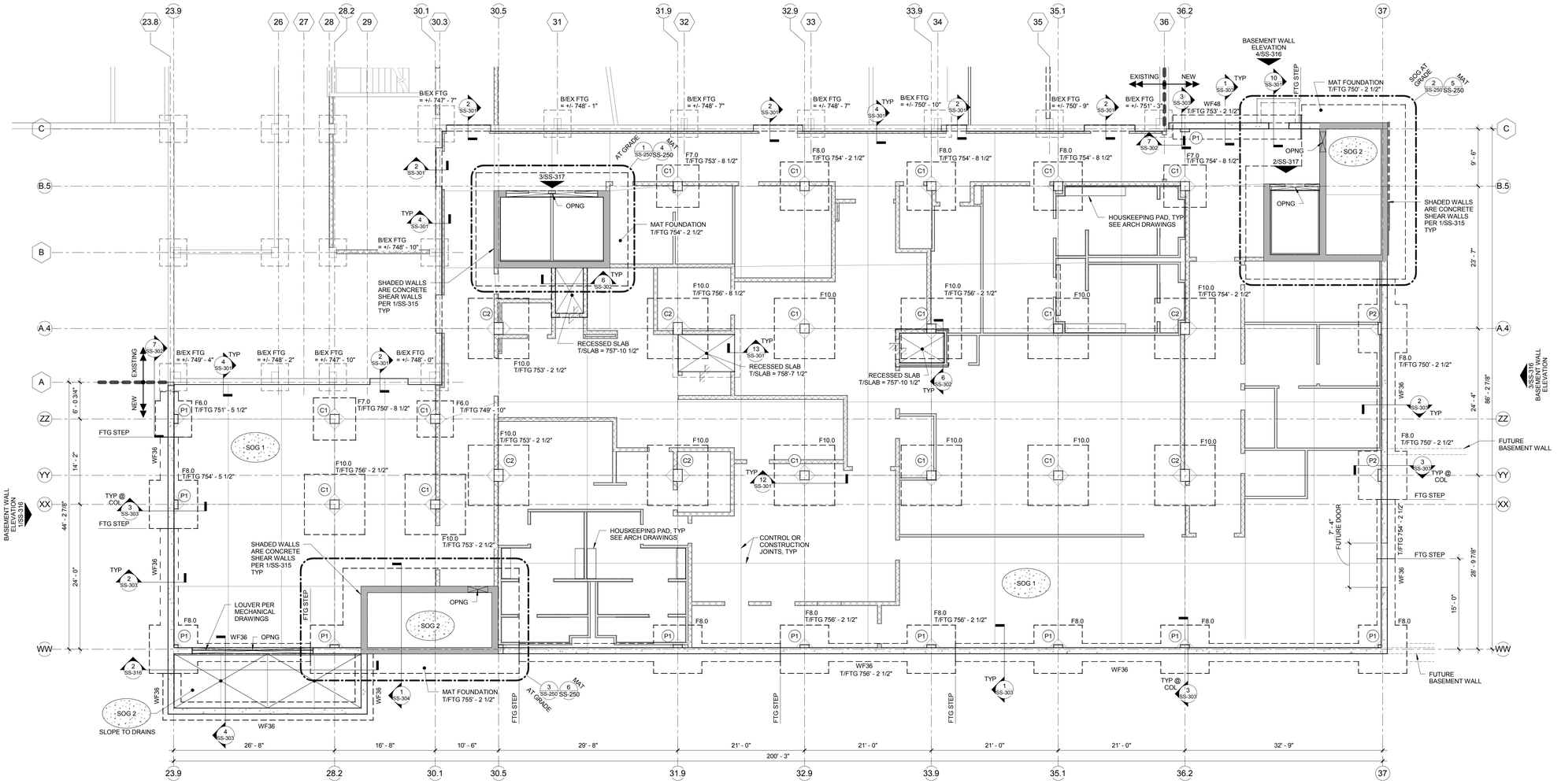
VA FORM 08-6231



FOUNDATION / BASEMENT PLAN

1/8" = 1'-0"

NOTES:

1. REFERENCE TOP OF SLAB (T/SLAB) ELEVATION = 759'-2 1/2"
2. TOP OF INTERIOR FOOTING ELEVATION = 758'-2 1/2" U.N.O
3. TOP OF PERIMETER FOOTING ELEVATION = 758'-2 1/2" U.N.O.
4. REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
5. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
6. PROVIDE #4 BAR x 2'-6" LONG PLACED AT 45 DEGREES AT MID-DEPTH OF SLAB AT RE-ENTRANT CORNERS. SEE TYPICAL ADDITIONAL SLAB ON GRADE REINFORCING DETAIL.

FUTURE 5-STORY ADDITION DESIGN NOTE:

THE LOCATIONS OF THE STRUCTURAL FRAMING SYSTEM, INCLUDING SHEAR WALLS AND COLUMNS MUST STACK VERTICALLY FOR THE FUTURE 5-STORY ADDITION. A CHANGE TO THE STRUCTURAL FRAMING SYSTEM WILL IMPACT THE FOUNDATION DESIGN FOR THIS PHASE

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Revisions:	Date

SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, 46805

ARCHITECT/ENGINEERS:

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CONSULTANTS:

ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Approved: Project Director

Drawing Title	FOUNDATION / BASEMENT PLAN
Project Title	SPS BASEMENT ADDITION
Project Number	2010.00629
Building Number	01
Location	2121 LAKE AVE., FORT WAYNE, IN 46805
Drawing Number	SS-101
Date	8/15/2014
Checked	ABZ
Drawn	DAE

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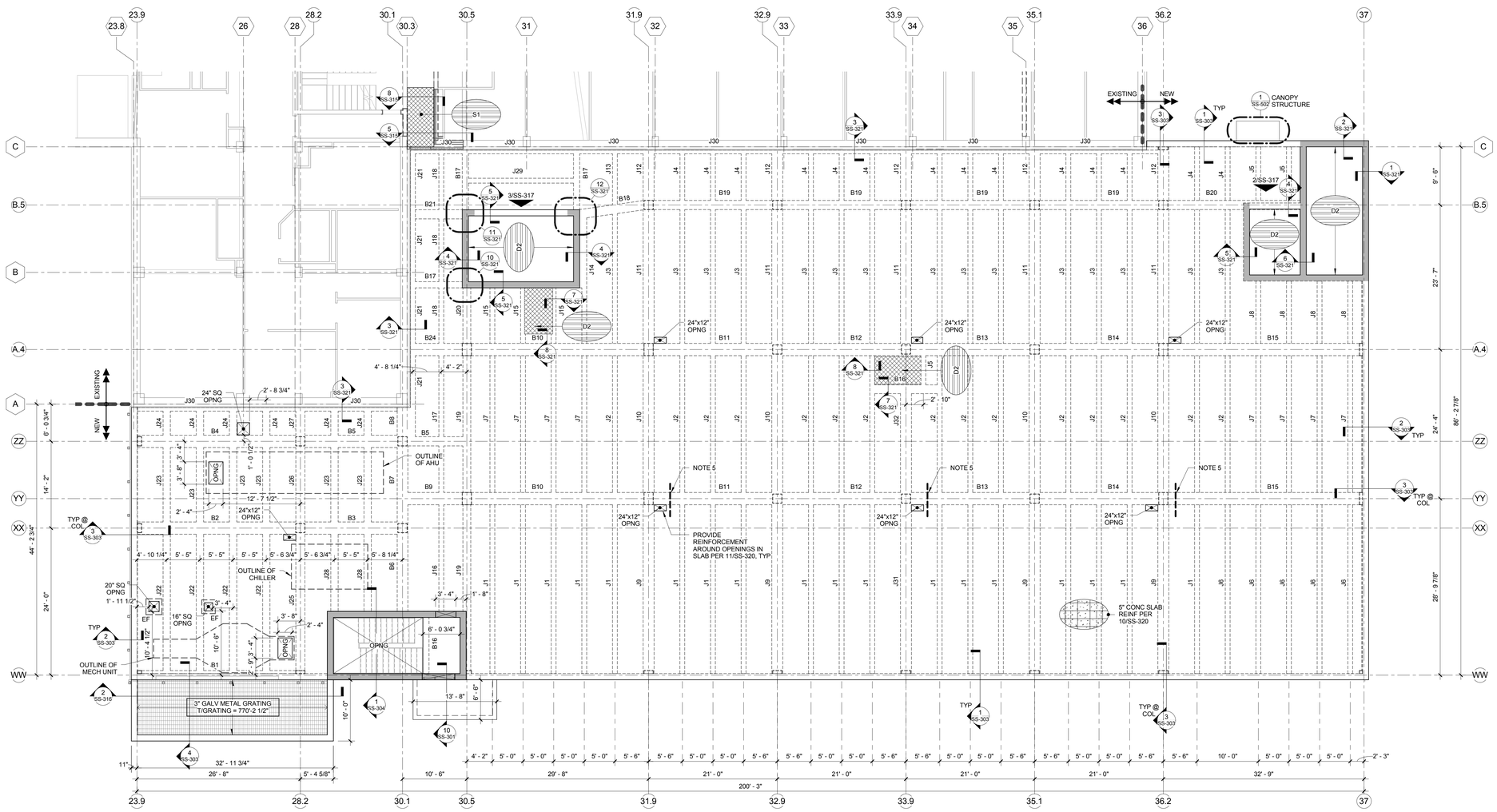

FIRST FLOOR FRAMING PLAN

1/8" = 1'-0"

NOTES:

1. REFERENCE TOP OF SLAB (T/SLAB) ELEVATION = 772'-2 1/2"
2. REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
3. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
4. PROVIDE #4 BAR x 2'-6" LONG PLACED AT 45 DEGREES AT MID-DEPTH OF SLAB AT RE-ENTRANT CORNERS.
5. 4" PIPE PENETRATION THROUGH CONCRETE GIRDER. SEE TYPICAL PIPE SLEEVE PENETRATION THROUGH CONCRETE GIRDER DETAIL 13/SS-320 FOR ACCEPTABLE PLACEMENT LOCATION AND ADDITIONAL INFORMATION.
6. COORDINATE AND VERIFY LOCATION OF OPENINGS FOR MECHANICAL UNITS WITH THE MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF REINFORCING STEEL.

FUTURE 5-STORY ADDITION DESIGN NOTE:

THE LOCATIONS OF THE STRUCTURAL FRAMING SYSTEM, INCLUDING SHEAR WALLS AND COLUMNS MUST STACK VERTICALLY FOR THE FUTURE 5-STORY ADDITION. A CHANGE TO THE STRUCTURAL FRAMING SYSTEM WILL IMPACT THE FOUNDATION DESIGN FOR THIS PHASE

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Revisions:	Date

VA

SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

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ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title	FIRST FLOOR FRAMING PLAN
Approved: Project Director	
Project Title	SPS BASEMENT ADDITION
Location	2121 LAKE AVE., FORT WAYNE, IN 46805
Date	8/15/2014
Checked	ABZ
Drawn	DAE
Project Number	2010.00629
Building Number	01
Drawing Number	SS-201

Office of Construction and Facilities Management

VA Department of Veterans Affairs

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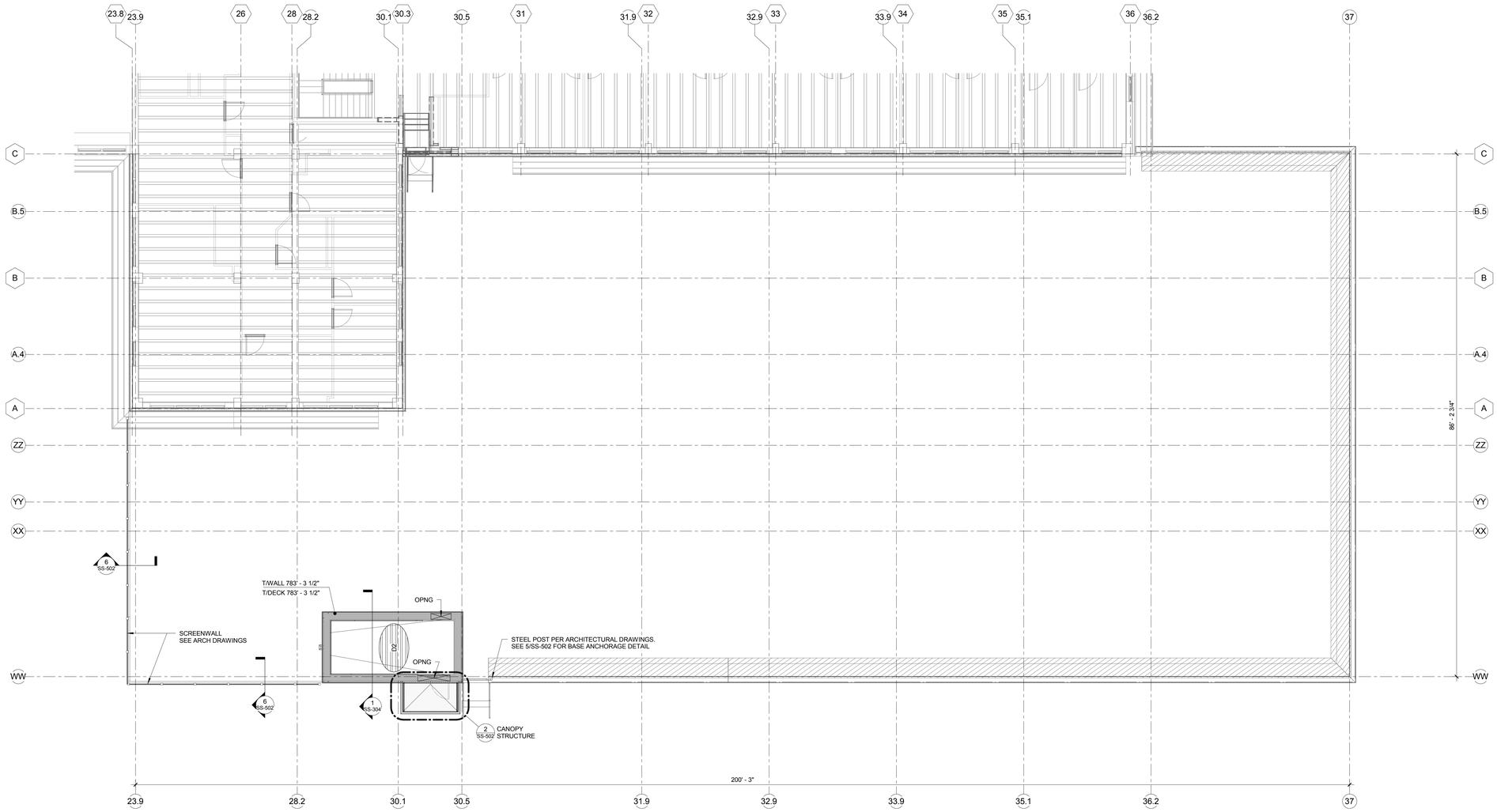

N

1 SS-202

STAIR TOWER ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES:

1. TOP OF STEEL (T/STL) ELEVATION PER PLAN.
2. REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
3. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.

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Revisions:	Date

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SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

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CONSULTANTS:

ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title: STAIR TOWER ROOF FRAMING PLAN

Approved: Project Director

Project Title: SPS BASEMENT ADDITION

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Project Number: 2010.00629

Building Number: 01

Drawing Number: SS-202

Office of Construction and Facilities Management

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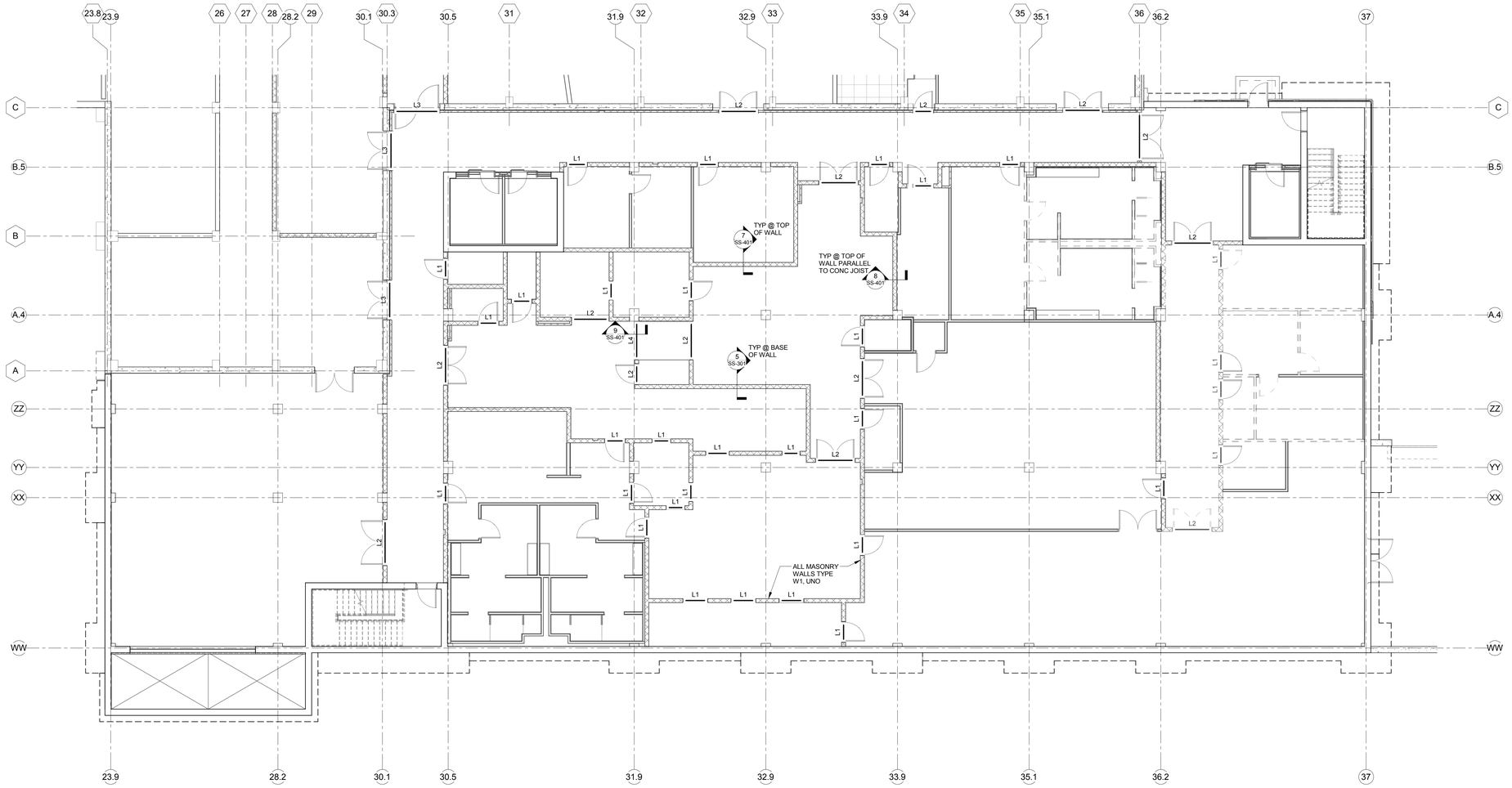

BASEMENT LEVEL MASONRY WALL AND LINTEL PLAN

1/8" = 1'-0"

NOTES:

1. REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
2. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
3. SEE SHEET SS-401 FOR MASONRY WALL SCHEDULES AND TYPICAL DETAILS.

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Revisions:	Date

VA

SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

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ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title: BASEMENT MASONRY WALL AND LINTEL PLAN

Approved: Project Director

Project Title: SPS BASEMENT ADDITION

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Project Number: 2010.00629

Building Number: 01

Drawing Number: SS-240

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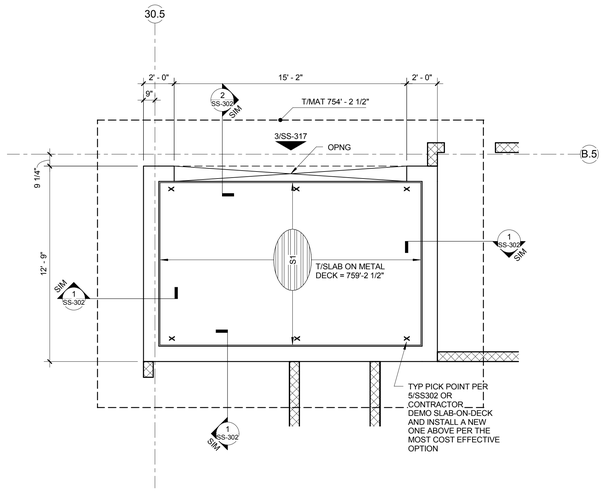
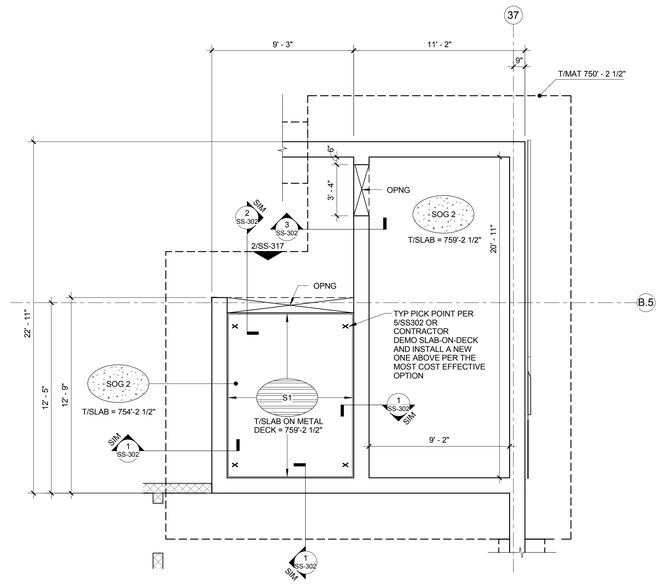
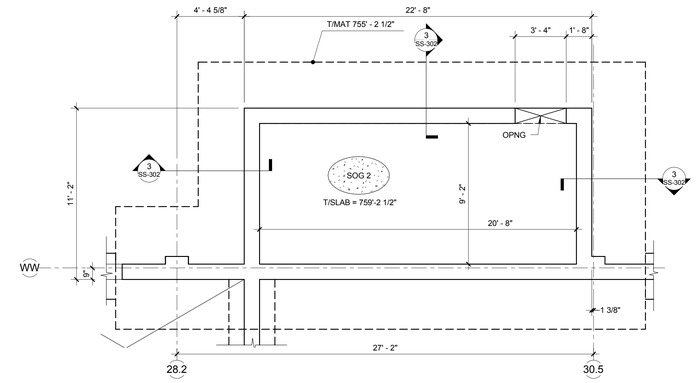


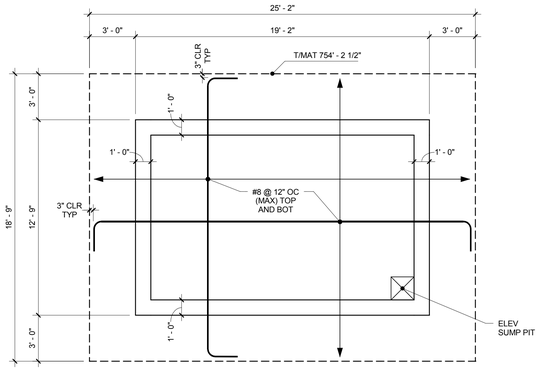
1 SS-250 **DUAL ELEVATOR ENLARGED PLAN**
1/4" = 1'-0"



2 SS-250 **ELEVATOR / STAIR ENLARGED PLAN**
1/4" = 1'-0"

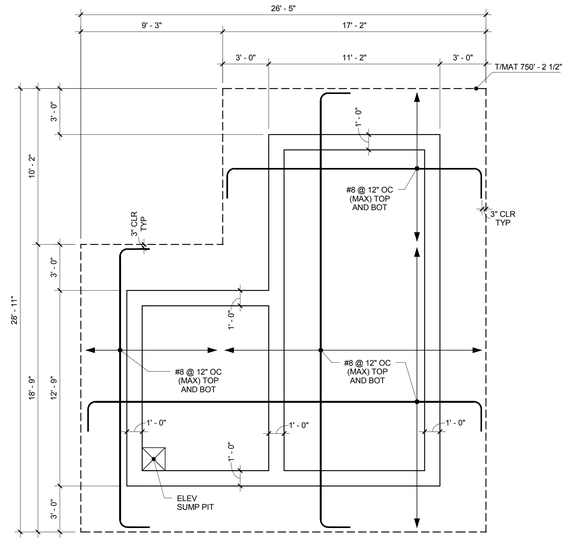


3 SS-250 **STAIR SHAFT ENLARGED PLAN**
1/4" = 1'-0"



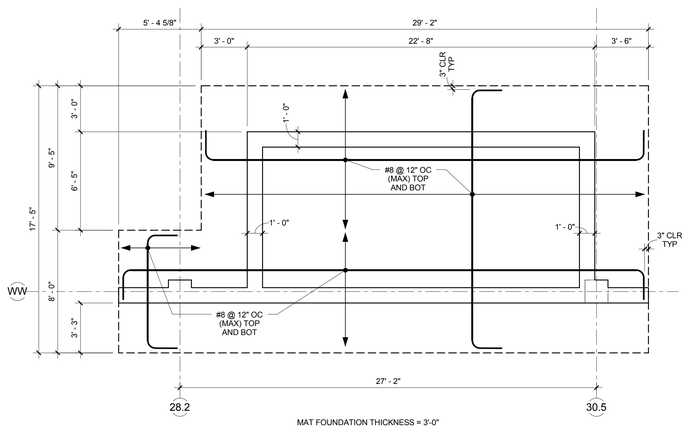
MAT FOUNDATION THICKNESS = 3'-0"

4 SS-250 **DUAL ELEVATOR MAT FOUNDATION REINFORCEMENT**
1/4" = 1'-0"



MAT FOUNDATION THICKNESS = 3'-0"

5 SS-250 **ELEVATOR / STAIR MAT FOUNDATION REINFORCEMENT**
1/4" = 1'-0"



MAT FOUNDATION THICKNESS = 3'-0"

6 SS-250 **STAIR SHAFT MAT FOUNDATION REINFORCEMENT**
1/4" = 1'-0"

100% CONSTRUCTION DOCUMENTS
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Revisions:	Date

SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

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8/15/2014

Drawing Title: ENLARGED PLANS

Approved: Project Director

Project Title: SPS BASEMENT ADDITION

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Project Number: 2010.00629

Building Number: 01

Drawing Number: SS-250

Office of Construction and Facilities Management

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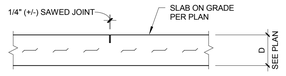
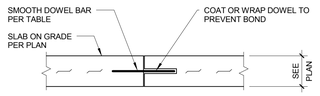


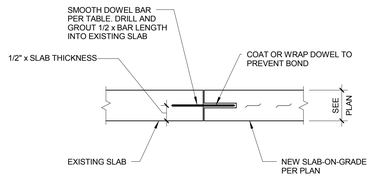
CONTROL JOINT



CONSTRUCTION JOINT

DOWEL SIZE AND SPACING			
SLAB DEPTH (IN)	DOWEL BAR DIAMETER (IN)	TOTAL BAR LENGTH (IN)	BAR SPACING (CTR. - CTR.) (IN)
4	3/4	16	24
5-6	3/4	16	12

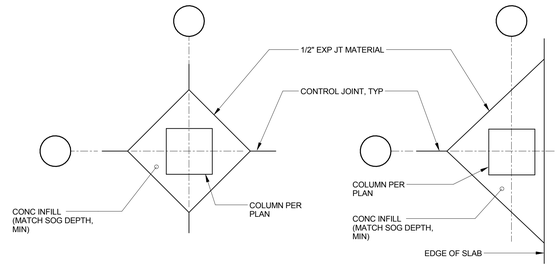
1 SS-301 **TYPICAL SLAB ON GRADE JOINTS** N.T.S.



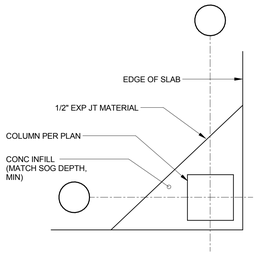
CONSTRUCTION JOINT

DOWEL SIZE AND SPACING			
SLAB DEPTH (IN)	DOWEL BAR DIAMETER (IN)	TOTAL BAR LENGTH (IN)	BAR SPACING (CTR. - CTR.) (IN)
4	3/4	16	24
5-6	3/4	16	12

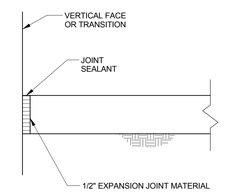
2 SS-301 **NEW-TO-EXISTING SLAB ON GRADE JOINT** N.T.S.



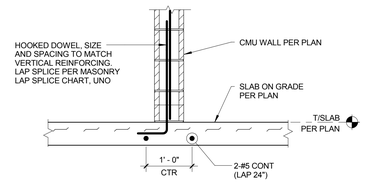
3 SS-301 **TYPICAL COLUMN ISOLATION JOINT DETAIL** N.T.S.



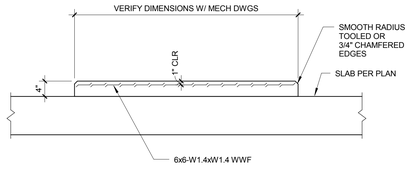
4 SS-301 **TYPICAL SOG ISOLATION JOINT** N.T.S.



AT CONTRACTORS OPTION:
PROVIDE STRAIGHT DOWELS IN LIEU OF HOOKED DOWELS. DRILL AND EPOXY-GROUT 0'-3" INTO SLAB CONCRETE. MATCH VERTICAL BAR SIZE AND SPACING.

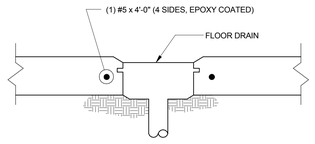


5 SS-301 **TYPICAL SLAB AT CMU WALL** N.T.S.



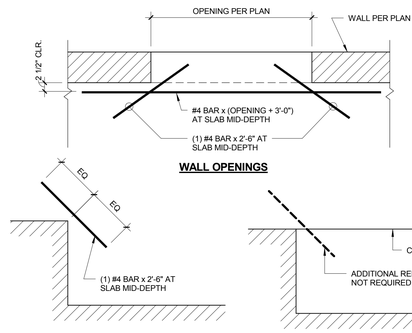
NOTE:
COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND EQUIPMENT SUPPLIER.

6 SS-301 **TYPICAL HOUSEKEEPING PAD** N.T.S.



NOTES:
1. SET FLOOR DRAIN PRIOR TO CONCRETE PLACEMENT.
2. COORDINATE LOCATION WITH PLUMBING CONTRACTOR.

7 SS-301 **TYPICAL FLOOR DRAIN DETAIL (SOG)** N.T.S.

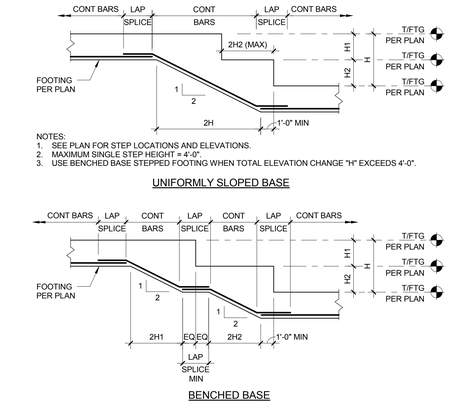


WALL OPENINGS

RE-ENTRANT CORNERS

ADDITIONAL REINFORCING NOT REQUIRED AT CJ

8 SS-301 **TYPICAL ADDITIONAL SLAB-ON-GRADE REINFORCING AT WALL OPENINGS** N.T.S.

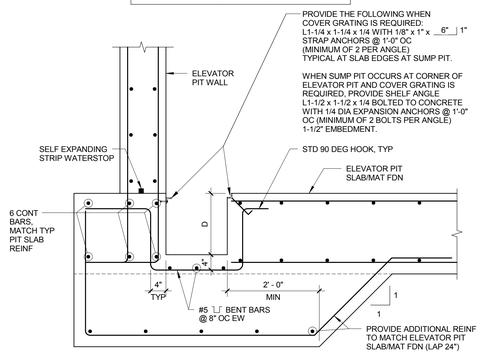


NOTES:
1. SEE PLAN FOR STEP LOCATIONS AND ELEVATIONS.
2. MAXIMUM SINGLE STEP HEIGHT = 4'-0".
3. USE BENCHED BASE STEPPED FOOTING WHEN TOTAL ELEVATION CHANGE "H" EXCEEDS 4'-0".

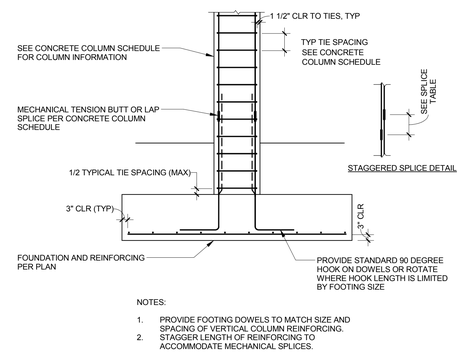
UNIFORMLY SLOPED BASE

BENCHED BASE

9 SS-301 **TYPICAL STEPPED FOOTING** N.T.S.

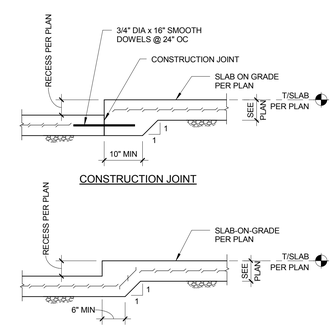


11 SS-301 **TYPICAL SUMP PIT AT ELEVATOR PIT** N.T.S.



NOTES:
1. PROVIDE FOOTING DOWELS TO MATCH SIZE AND SPACING OF VERTICAL COLUMN REINFORCING.
2. STAGGER LENGTH OF REINFORCING TO ACCOMMODATE MECHANICAL SPLICES.

12 SS-301 **TYPICAL CIP CONCRETE COLUMN FOUNDATION DETAIL** N.T.S.



13 SS-301 **TYPICAL SLAB RECESS** N.T.S.

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Revisions:	Date

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SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

ARCHITECT/ENGINEERS:

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CONSULTANTS:

ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title: FOUNDATION TYPICAL SECTIONS AND DETAILS

Approved: Project Director

Project Title: SPS BASEMENT ADDITION

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Project Number: 2010.00629

Building Number: 01

Drawing Number: SS-301

Office of Construction and Facilities Management

VA Department of Veterans Affairs

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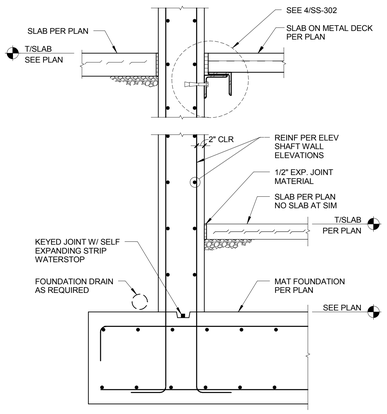
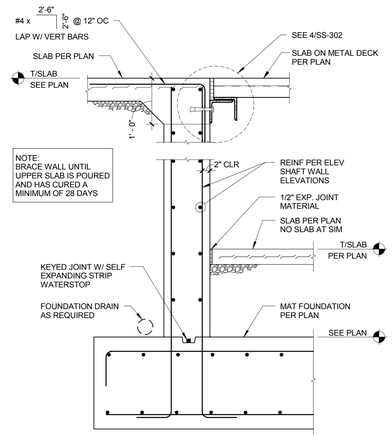
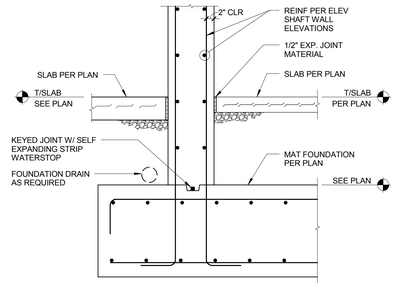


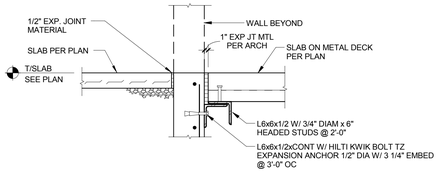
1 SS-302 **TYPICAL PIT WALL**
3/4" = 1'-0"



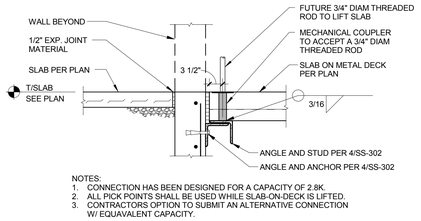
2 SS-302 **TYPICAL PIT WALL AT OPENING**
3/4" = 1'-0"



3 SS-302 **TYPICAL BASE OF WALL**
3/4" = 1'-0"

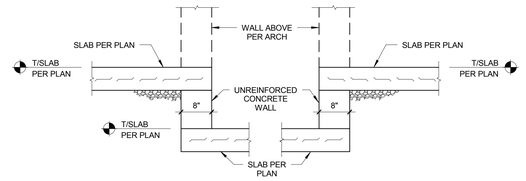


4 SS-302 **TYPICAL TEMPORARY SLAB ON METAL DECK CONNECTION**
3/4" = 1'-0"

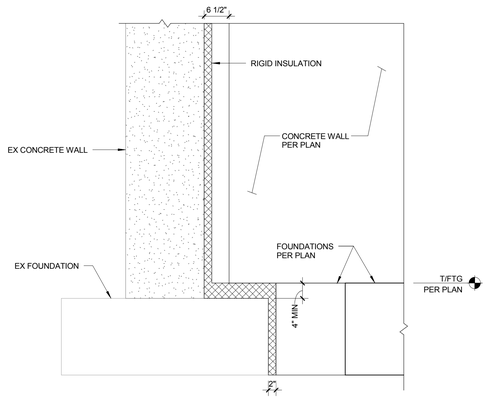


NOTES:
1. CONNECTION HAS BEEN DESIGNED FOR A CAPACITY OF 2.8K.
2. ALL PICK POINTS SHALL BE USED WHILE SLAB-ON-DECK IS LIFTED.
3. CONTRACTORS OPTION TO SUBMIT AN ALTERNATIVE CONNECTION W/ EQUAVALENT CAPACITY.

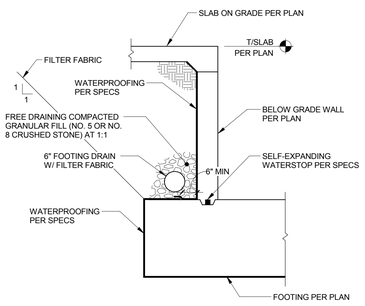
5 SS-302 **PICK POINT CONNECTION FOR SLAB-ON-DECK**
3/4" = 1'-0"



6 SS-302 **TYPICAL DUMBWAITER PIT**
3/4" = 1'-0"



7 SS-302 **SECTION**
3/4" = 1'-0"

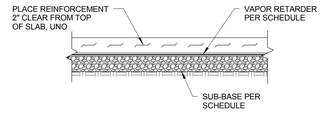


NOTES:
1. THIS DETAIL APPLIES TO ALL BELOW GRADE WALLS.
2. REINFORCING IN SLAB, WALL, AND FOOTING NOT SHOWN FOR CLARITY.

8 SS-302 **TYPICAL WATERSTOP AND WATERPROOFING**
1/2" = 1'-0"

SLAB-ON-GRADE SCHEDULE

MARK	SIZE	REINFORCEMENT	VAPOR RETARDER	SUB-BASE	REMARKS
SOG 1	6"	6x6-W1.4xW1.4 WWF	15 MIL	8" COMPACTED DRAINAGE FILL	
SOG 2	4"	6x6-W1.4xW1.4 WWF	15 MIL	8" COMPACTED DRAINAGE FILL	



SLAB ON GRADE DIAGRAM

NOTES:

COLUMN FOOTING SCHEDULE

MARK	FTG. SIZE	FTG. REINF.	REMARKS
F6.0	6'-0" x 6'-0" x 2'-0"	#6 @ 8" OC EW	
F7.0	7'-0" x 7'-0" x 2'-0"	#7 @ 9" OC EW	
F8.0	8'-0" x 8'-0" x 2'-0"	#7 @ 10" OC EW	
F10.0	10'-0" x 10'-0" x 3'-0"	#8 @ 11" OC EW	

WALL FOOTING SCHEDULE

MARK	SIZE (W x D)	FTG. REINF.	REMARKS
WF36	3'-0" x 2'-0"	(4) # 5 TOP & BOT CONT W/ # 3 STIRRUPS @ 48" OC	
WF48	4'-0" x 2'-0"	(4) # 5 TOP & BOT CONT W/ # 3 STIRRUPS @ 48" OC	

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SPS BASEMENT ADDITION

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ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title: FOUNDATION SCHEDULES, SECTIONS AND DETAILS

Approved: Project Director

Project Title: SPS BASEMENT ADDITION

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Project Number: 2010.00629

Building Number: 01

Drawing Number: SS-302

Office of Construction and Facilities Management

VA Department of Veterans Affairs

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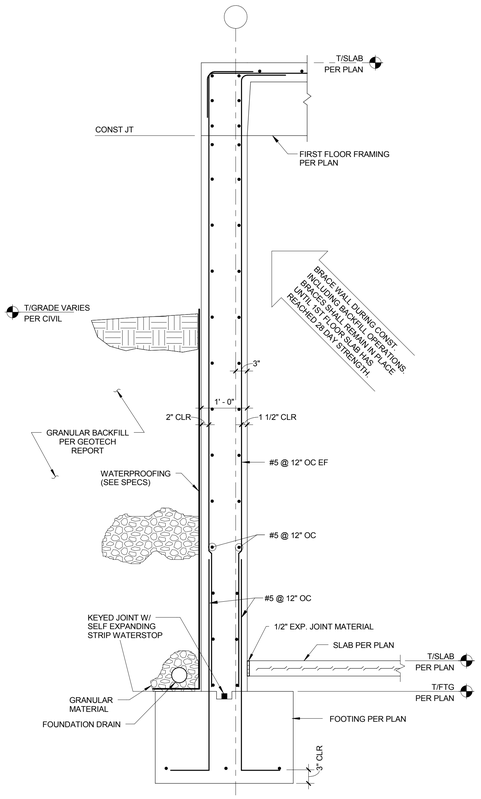
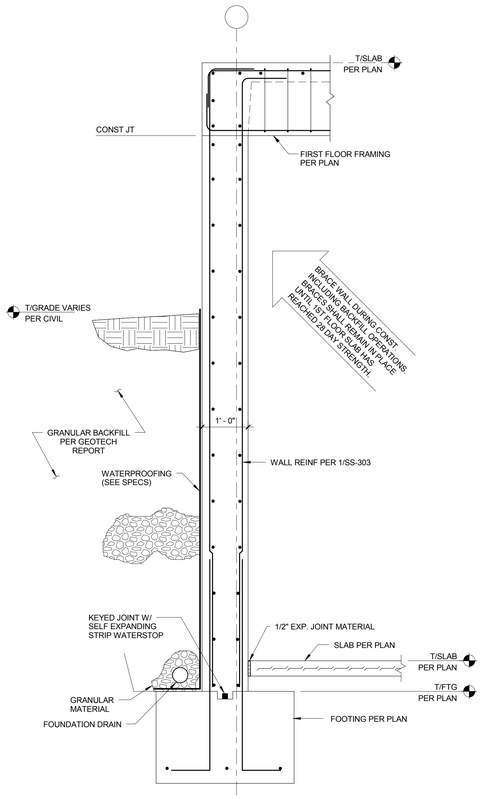


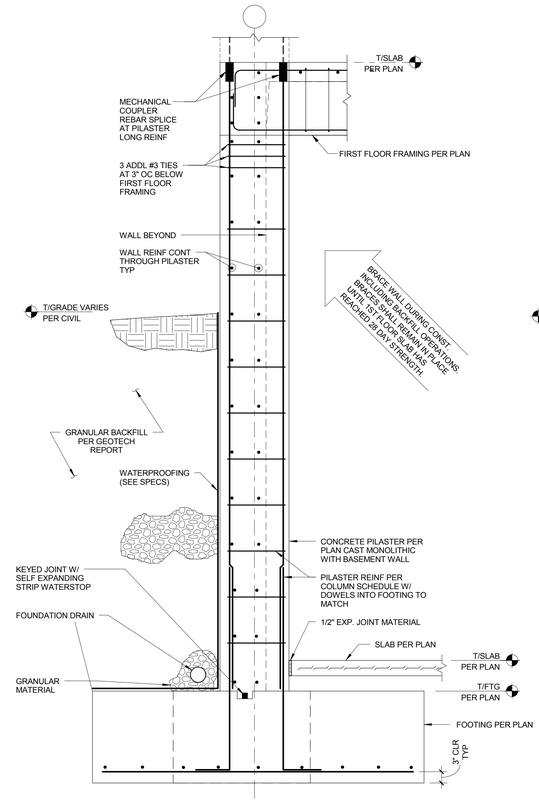
1 SS-303 3/4" = 1'-0"

SECTION AT BASEMENT WALL PERPENDICULAR TO PAN JOIST



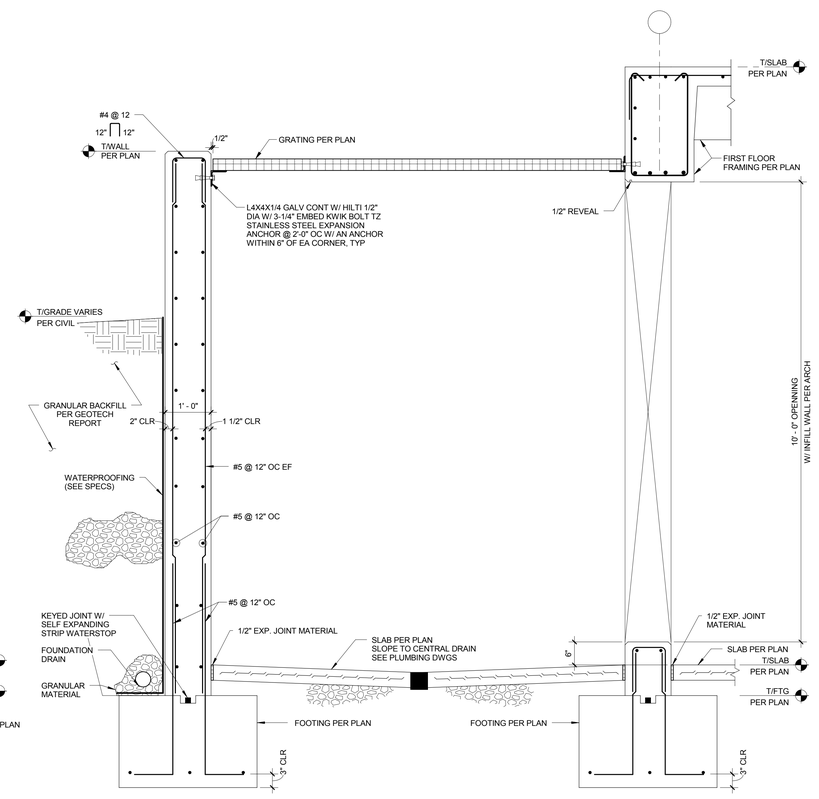
2 SS-303 3/4" = 1'-0"

SECTION AT BASEMENT WALL PARALLEL TO PAN JOIST



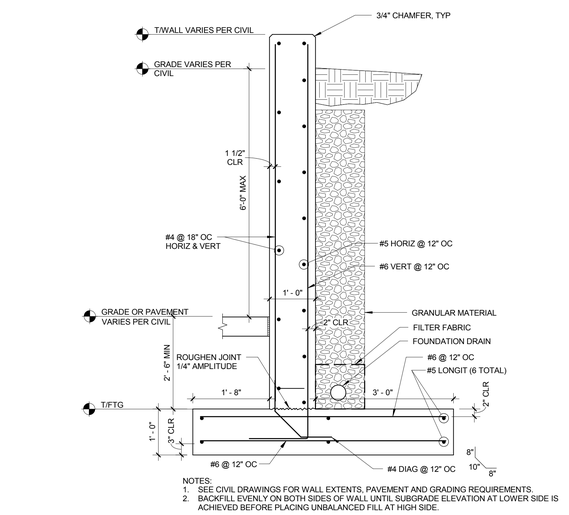
3 SS-303 3/4" = 1'-0"

SECTION AT BASEMENT WALL WITH INTEGRAL PILASTER



4 SS-303 3/4" = 1'-0"

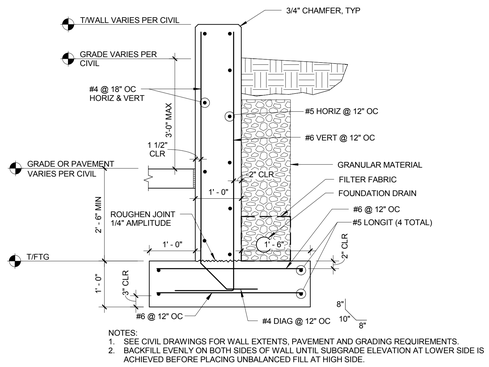
SECTION AT AREAWAY



NOTES:
1. SEE CIVIL DRAWINGS FOR WALL EXTENTS, PAVEMENT AND GRADING REQUIREMENTS.
2. BACKFILL EVENLY ON BOTH SIDES OF WALL UNTIL SUBGRADE ELEVATION AT LOWER SIDE IS ACHIEVED BEFORE PLACING UNBALANCED FILL AT HIGH SIDE.

5 SS-303 3/4" = 1'-0"

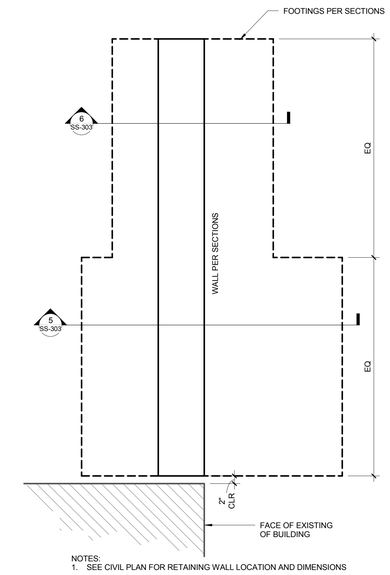
SITE RETAINING WALL



NOTES:
1. SEE CIVIL DRAWINGS FOR WALL EXTENTS, PAVEMENT AND GRADING REQUIREMENTS.
2. BACKFILL EVENLY ON BOTH SIDES OF WALL UNTIL SUBGRADE ELEVATION AT LOWER SIDE IS ACHIEVED BEFORE PLACING UNBALANCED FILL AT HIGH SIDE.

6 SS-303 3/4" = 1'-0"

SITE RETAINING WALL



NOTES:
1. SEE CIVIL PLAN FOR RETAINING WALL LOCATION AND DIMENSIONS

N

7 SS-303 3/4" = 1'-0"

SITE RETAINING WALL PLAN

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SPS BASEMENT ADDITION

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ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title	FOUNDATION SECTIONS AND DETAILS
Approved: Project Director	
Project Title	SPS BASEMENT ADDITION
Location	2121 LAKE AVE., FORT WAYNE, IN 46805
Date	8/15/2014
Checked	ABZ
Drawn	DAE
Project Number	2010.00629
Building Number	01
Drawing Number	SS-303

Office of Construction and Facilities Management

VA Department of Veterans Affairs

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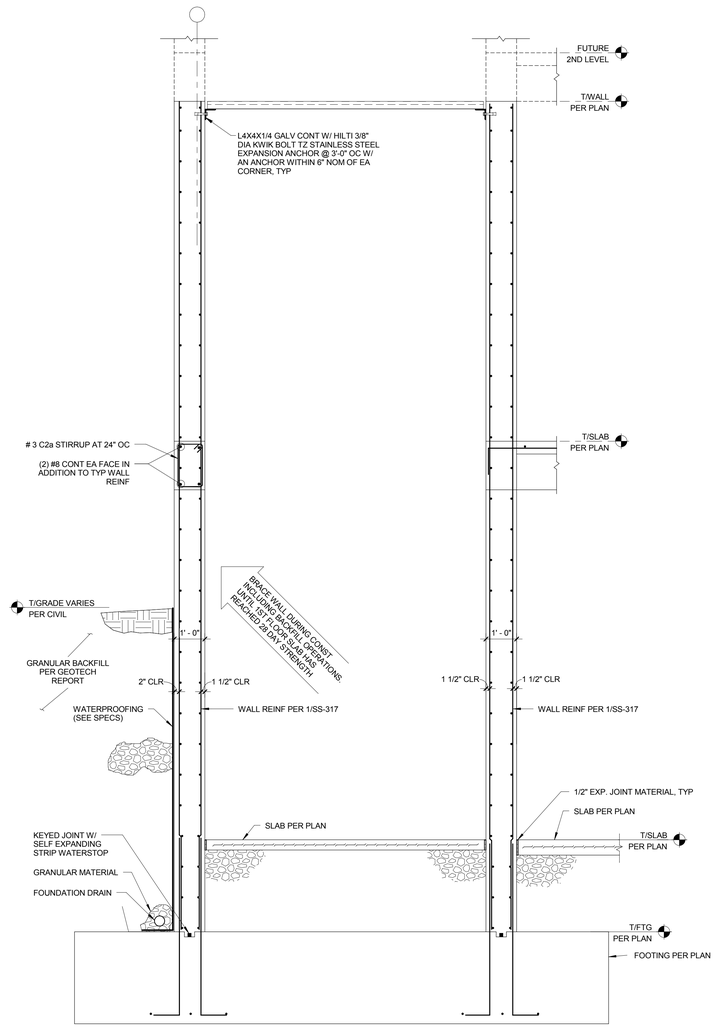

1 SS-304 SECTION AT STAIR SHAFT

1/2" = 1'-0"

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SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

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8/15/2014

Drawing Title: FOUNDATION SECTIONS AND DETAILS

Approved: Project Director

Project Title: SPS BASEMENT ADDITION

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Project Number: 2010.00629

Building Number: 01

Drawing Number: SS-304

Office of Construction and Facilities Management

VA Department of Veterans Affairs

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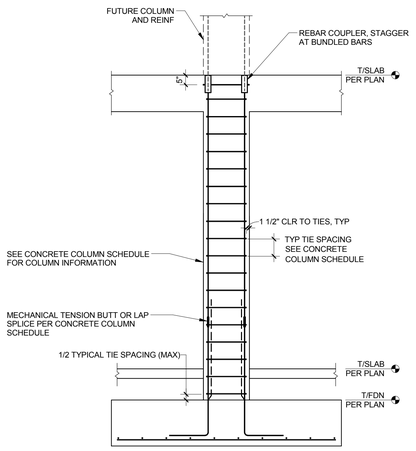
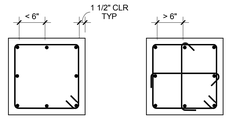


NOTES:

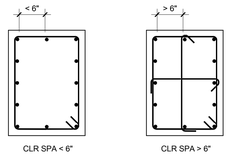
1) SEE CONCRETE COLUMN SCHEDULE FOR SIZE, REINFORCING AND OTHER INFORMATION.
2) 3" TIE SPACING FOR H/6, MAX COLUMN DIMENSION, OR 18" (WHICHEVER IS GREATER).
3) TIE SPACING PER CONCRETE COLUMN SCHEDULE.

1 SS-310 TYPICAL CONCRETE COLUMN

N.T.S.



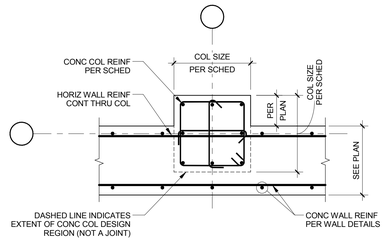
8 BAR COLUMN LAYOUT OPTIONS AT P1 AND C1 COLUMNS



12 BAR COLUMN LAYOUT OPTIONS AT P2 AND C2 COLUMNS

2 SS-310 STANDARD COLUMN BAR LAYOUT

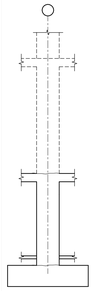
N.T.S.



3 SS-310 TYPICAL CONCRETE PILASTER DETAIL

N.T.S.

CONCRETE COLUMN SCHEDULE



		P1	P2	C1	C2
LEVEL 2	SIZE				
	VERTICAL REINFORCEMENT				
	TIES				
	DETAIL				
	SPLICE	MECH	MECH	MECH	MECH
LEVEL 1	SIZE	18" x 18"	18" x 24"	18" x 18"	18" x 24"
	VERTICAL REINFORCEMENT	8 - #8	12 - #9	8 - #8	12 - #9
	TIES	#4 @ 6"	#4 @ 6"	#4 @ 6"	#4 @ 6"
	DETAIL	C1	C1	C1	C1
T/FND PER PLAN	SPLICE	LAP Lt	LAP Lt	LAP Lt	LAP Lt
	FOUNDATION DOWELS	8 - #8	12 - #9	8 - #8	12 - #9

CONCRETE COLUMN SCHEDULE NOTES:

1. SEE FOUNDATION PLAN FOR TOP OF FOUNDATION ELEVATION.
2. SEE FRAMING PLANS FOR TOP OF COLUMN ELEVATIONS.
3. "MECH" INDICATES MECHANICAL COUPLER BUTT SPLICE.
4. FORM SAVER MECHANICAL COUPLER SHALL BE USED ON ALL VERTICAL REINFORCING STEEL AT TOP OF 1ST FLOOR

4 SS-310 TYPICAL MECHANICAL COUPLER DETAIL

N.T.S.

5 SS-310 TYPICAL FORM SAVER COUPLER DETAIL

1 1/2" = 1'-0"

6 SS-310 TYPICAL CONCRETE FRAMING SECTION

1/4" = 1'-0"

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SPS BASEMENT ADDITION

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8/15/2014

Drawing Title: CONCRETE COLUMN SCHEDULE AND DETAILS
Approved: Project Director
Project Title: SPS BASEMENT ADDITION
Location: 2121 LAKE AVE., FORT WAYNE, IN 46805
Date: 8/15/2014
Checked: ABZ
Drawn: DAE
Project Number: 2010.00629
Building Number: 01
Drawing Number: SS-310

Office of Construction and Facilities Management
VA Department of Veterans Affairs

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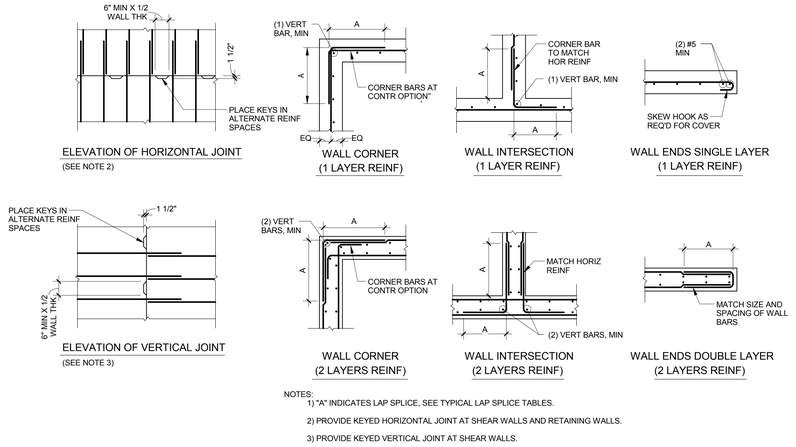
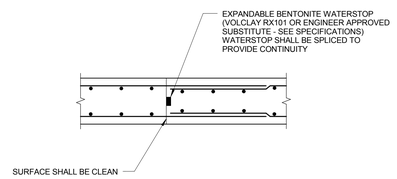
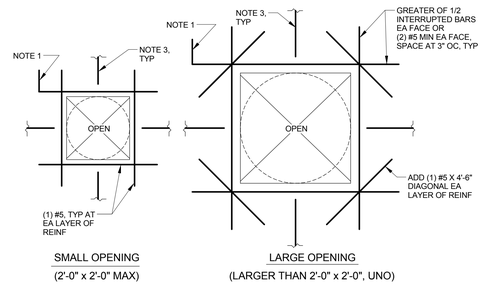


NOTES:
1) "A" INDICATES LAP SPLICE, SEE TYPICAL LAP SPLICE TABLES.
2) PROVIDE KEYED HORIZONTAL JOINT AT SHEAR WALLS AND RETAINING WALLS.
3) PROVIDE KEYED VERTICAL JOINT AT SHEAR WALLS.

1 SS-315 TYPICAL CONCRETE WALL REINFORCING DETAILS
N.T.S.

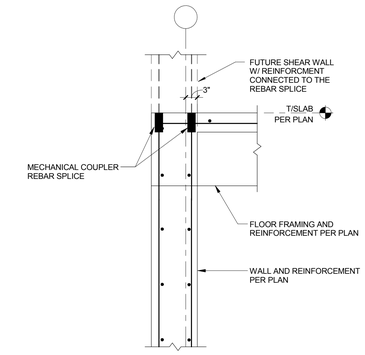


2 SS-315 TYPICAL CONSTRUCTION JOINT
N.T.S.

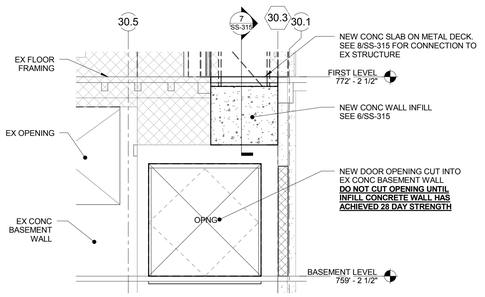


NOTES:
1. PROVIDE STANDARD HOOK WHEN EDGE OF WALL IS WITHIN 2'-0" OF OPENING.
2. VERIFY ALL OPENINGS (INCLUDING PIPING/ CONDUIT PENETRATIONS) NOT SHOWN ON STRUCTURAL DRAWINGS WITH THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
3. SEE PLANS AND DETAILS FOR REQUIRED WALL REINFORCEMENT.

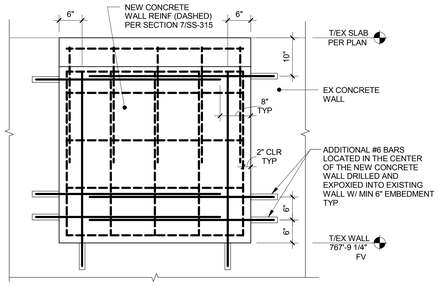
3 SS-315 TYPICAL CONCRETE WALL OPENING DETAIL
N.T.S.



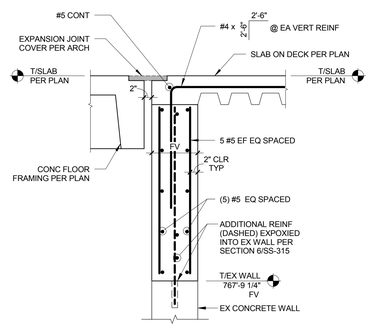
4 SS-315 TYPICAL SHEAR WALL REINFORCEMENT SPLICE
3/4" = 1'-0"



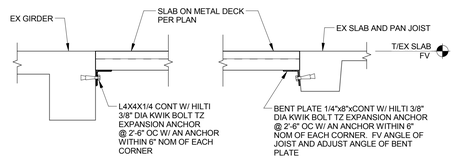
5 SS-315 ELEVATION OF EXISTING BASEMENT WALL AT NEW DOUBLE DOOR
1/4" = 1'-0"



6 SS-315 WALL INFILL ELEVATION
3/4" = 1'-0"



7 SS-315 WALL INFILL SECTION
3/4" = 1'-0"



8 SS-315 STAIR INFILL
3/4" = 1'-0"

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Revisions:	Date

SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

ARCHITECT/ENGINEERS:

AMERICAN STRUCTUREPOINT INC.
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CONSULTANTS:

ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title: CONCRETE WALL SECTIONS AND DETAILS
Approved: Project Director
Project Title: SPS BASEMENT ADDITION
Location: 2121 LAKE AVE., FORT WAYNE, IN 46805
Date: 8/15/2014
Checked: ABZ
Drawn: DAE
Project Number: 2010.00629
Building Number: 01
Drawing Number: SS-315

Office of Construction and Facilities Management
VA Department of Veterans Affairs

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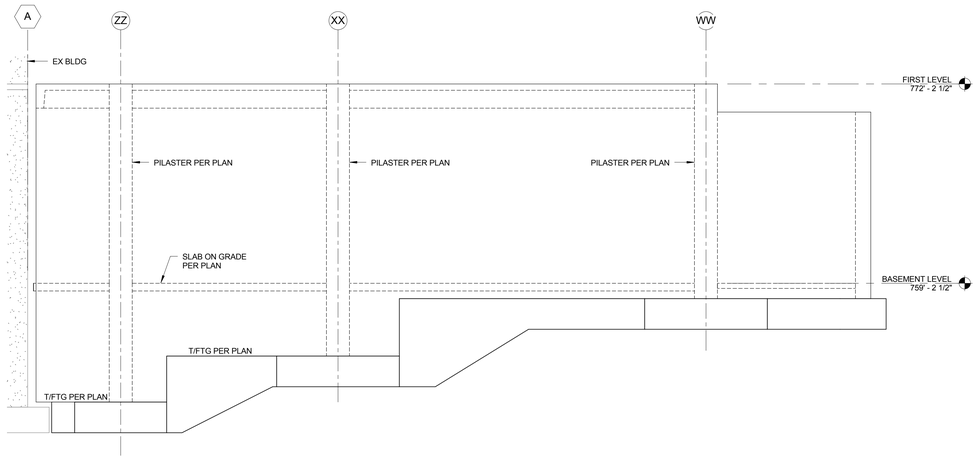
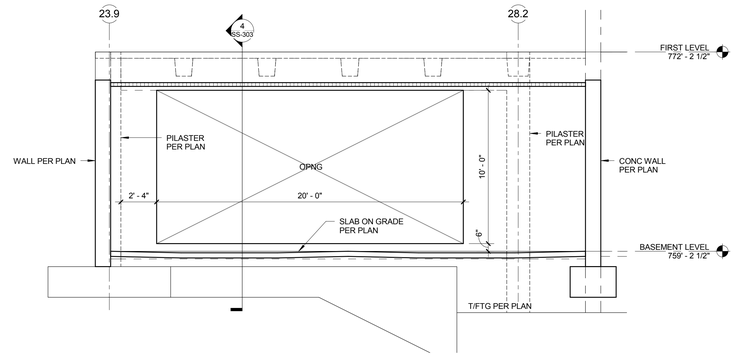
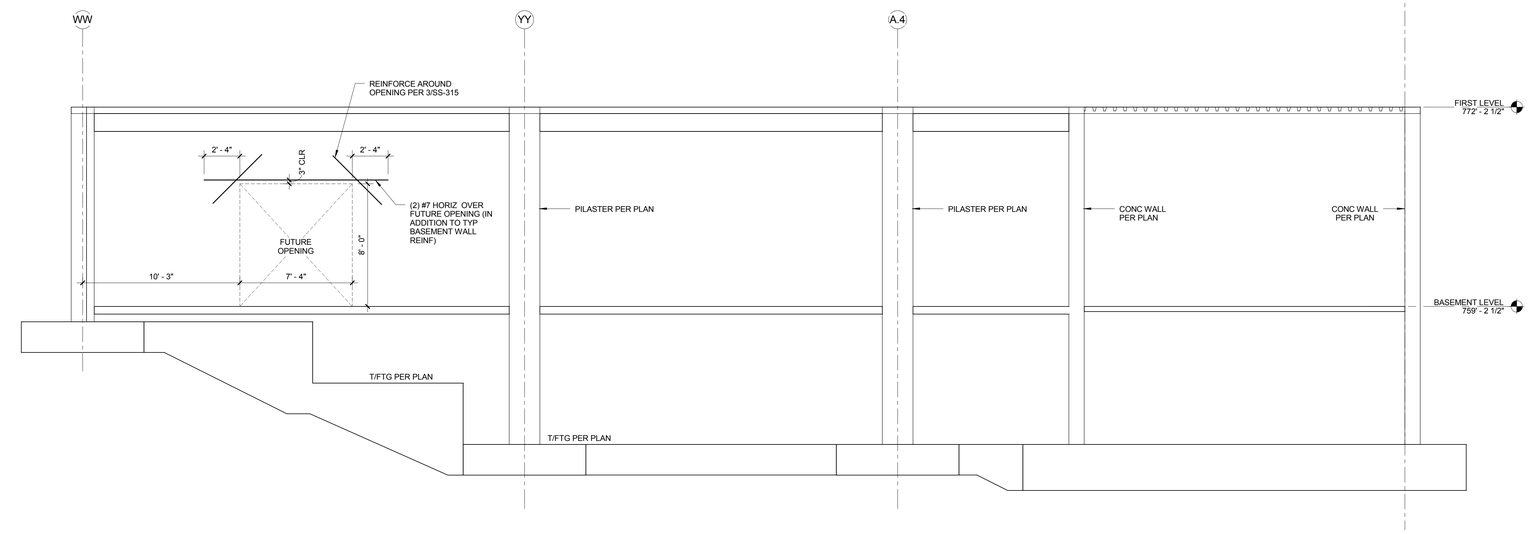


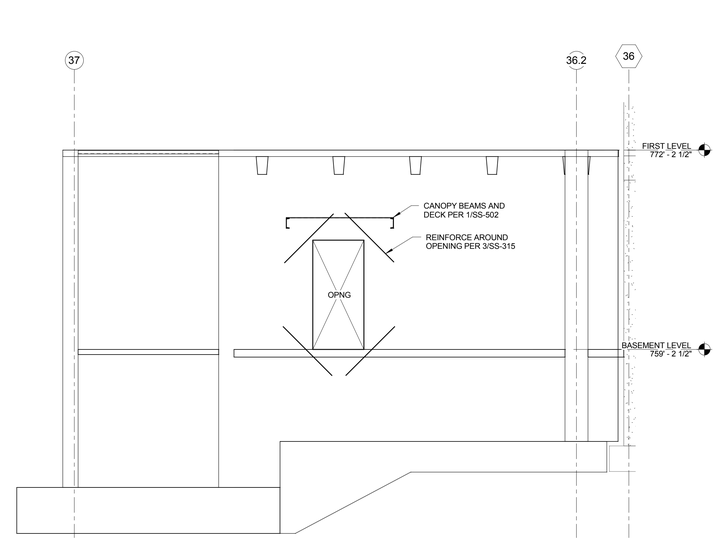
1 SS-316 **BASEMENT WALL ELEVATION ALONG LINE 23.9**
1/4" = 1'-0"



2 SS-316 **ELEVATION OF BASEMENT WALL OPENINGS AT AREA-WAY**
1/4" = 1'-0"



3 SS-316 **BASEMENT WALL ELEVATION ALONG LINE 37**
1/4" = 1'-0"



4 SS-316 **BASEMENT WALL ELEVATION ALONG LINE C**
1/4" = 1'-0"

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SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

ARCHITECT/ENGINEERS:

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CONSULTANTS:

ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title: CONCRETE WALL ELEVATIONS

Approved: Project Director

Project Title: SPS BASEMENT ADDITION

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Project Number: 2010.00629

Building Number: 01

Drawing Number: SS-316

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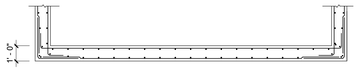
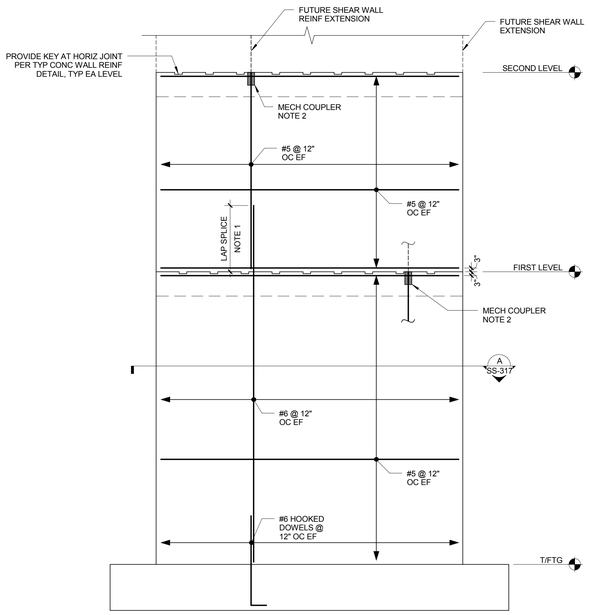


SECTION A



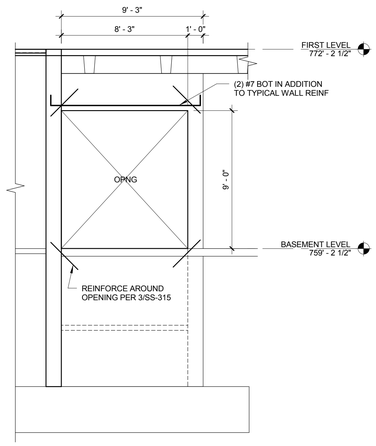
ELEVATION

NOTES:

1. PROVIDE LAP SPLICE AT MULTI-STORY OR MULTI-POUR CONCETE SHEAR WALLS.
2. WHERE SHEAR WALL TERMINATES, PROVIDE FORM SAVER MECHANICAL COUPLER AT THE END OF EA VERTICAL REINF

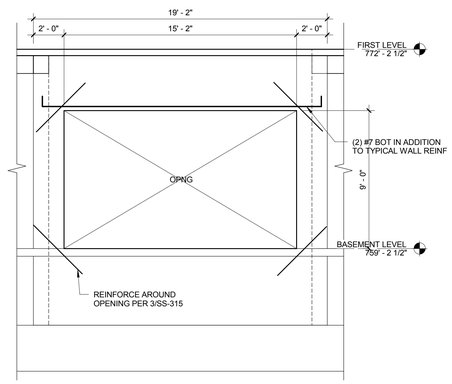
1 SS-317 TYPICAL CONCRETE SHEAR WALL

1/4" = 1'-0"



2 SS-317 ELEVATION AT ELEVATOR SHAFT OPENING

1/4" = 1'-0"



3 SS-317 ELEVATION AT ELEVATOR SHAFT OPENING

1/4" = 1'-0"

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Revisions:	Date

SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

ARCHITECT/ENGINEERS:

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CONSULTANTS:

ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title: CONCRETE WALL ELEVATIONS

Approved: Project Director

Project Title: SPS BASEMENT ADDITION

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Project Number: 2010.00629

Building Number: 01

Drawing Number: SS-317

Office of Construction and Facilities Management

VA Department of Veterans Affairs

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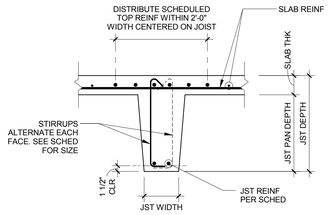
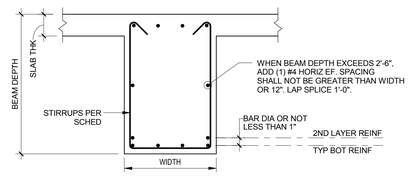


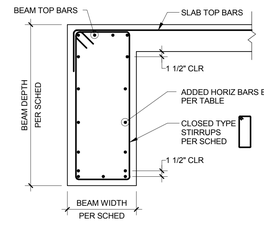
1 SS-320 TYPICAL CONCRETE JOIST SECTION

N.T.S.



2 SS-320 TYPICAL CONCRETE BEAM SECTION

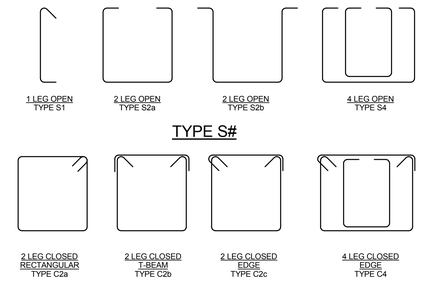
3/4" = 1'-0"



ADDED HORIZ BARS	
BEAM WIDTH	REQD REINF AND SPACING
LESS THAN 18 IN	#4 @ 7"
GREATER THAN 18 IN	#4 @ 5"

3 SS-320 TYPICAL CONC EDGE BEAM DETAIL

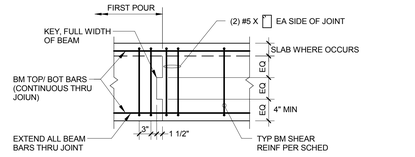
3/4" = 1'-0"



NOTES:
1. TYPE 'S' ARE OPEN LEG AND TYPE 'C' ARE CLOSED LEG STIRRUPS.
2. "#" INDICATES THE NUMBER OF VERTICAL LEGS.

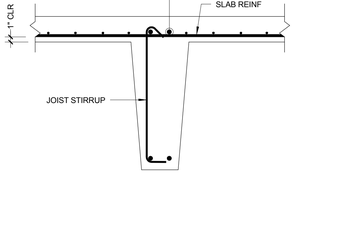
4 SS-320 TYPICAL STIRRUP DETAILS

N.T.S.



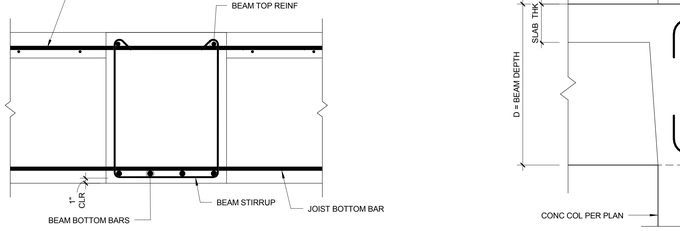
5 SS-320 TYPICAL BEAM CONSTRUCTION JOINT DETAIL

3/4" = 1'-0"



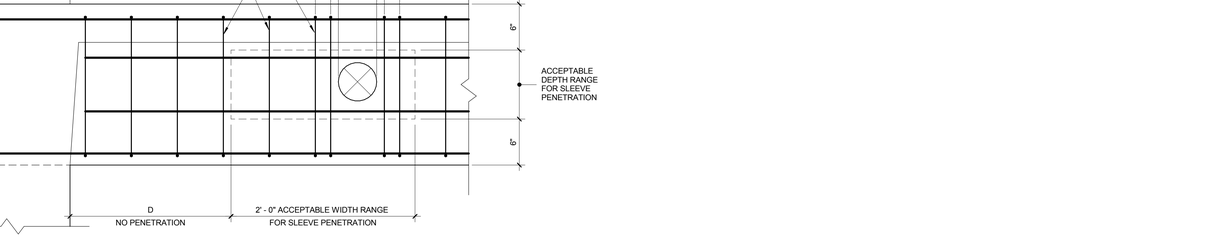
6 SS-320 TYPICAL CONCRETE BEAM DESIGNATION

3/4" = 1'-0"



7 SS-320 TYPICAL SINGLE-SPAN MILD REINFORCED CONCRETE JOIST/BEAM - TYPE 1

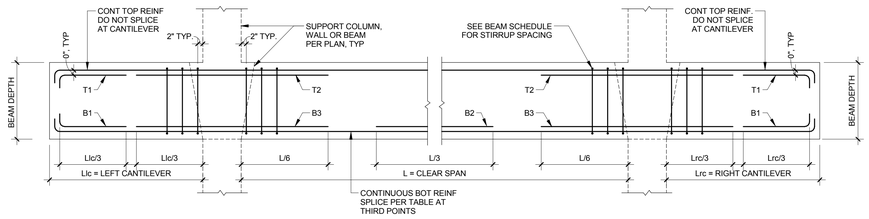
N.T.S.



NOTES:
1) PROVIDE B3 AND T2 BARS AT CONTINUOUS BEAM
PROVIDE B1 AND T1 BARS AT DISCONTINUOUS BEAM.

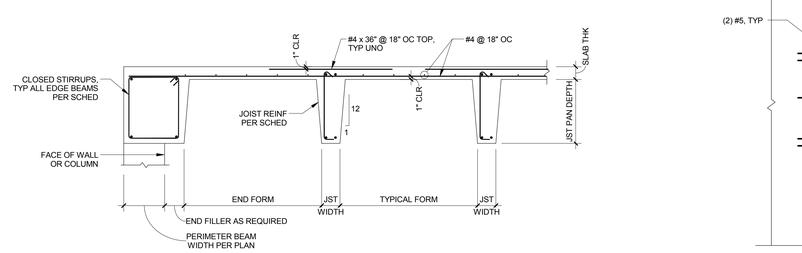
8 SS-320 TYPICAL MULTI-SPAN MILD REINFORCED CONCRETE JOIST/BEAM - TYPE 2

N.T.S.



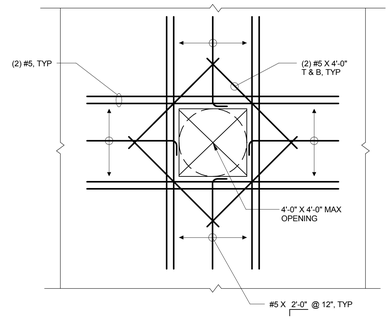
9 SS-320 TYPICAL CANTILEVERED MILD REINFORCED CONCRETE JOIST/BEAM - TYPE 3

N.T.S.



10 SS-320 TYPICAL JOIST/SLAB REINFORCING DETAIL

N.T.S.



11 SS-320 TYPICAL ELEVATED CIP SLAB OPENING DETAIL

N.T.S.

12 SS-320 TYPICAL JOIST AND BEAM REINFORCING STEEL LAYUP

1" = 1'-0"

13 SS-320 TYPICAL PIPE SLEEVE PENETRATION THROUGH CONCRETE GIRDER

1 1/2" = 1'-0"

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SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

ARCHITECT/ENGINEERS:

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8/15/2014

Drawing Title: CONCRETE FRAMING TYPICAL DETAILS

Approved: Project Director

Project Title: SPS BASEMENT ADDITION

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Project Number: 2010.00629

Building Number: 01

Drawing Number: SS-320

Office of Construction and Facilities Management

VA Department of Veterans Affairs

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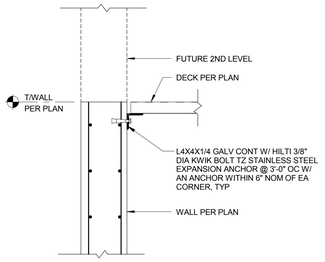
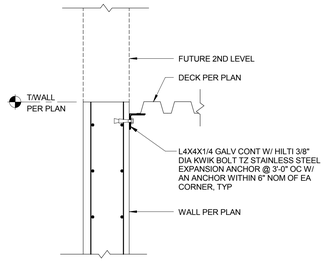
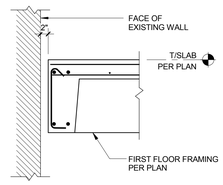


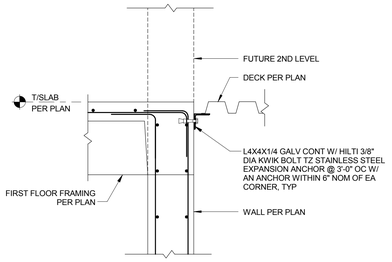
1 SS-321 **SECTION** 3/4" = 1'-0"



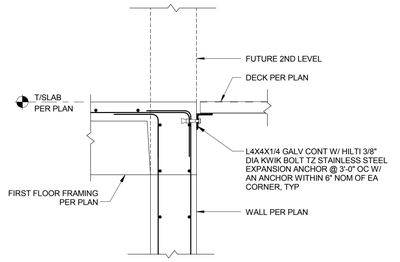
2 SS-321 **SECTION** 3/4" = 1'-0"



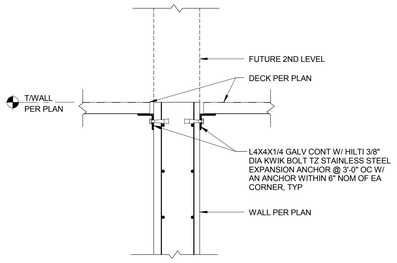
3 SS-321 **SECTION** 3/4" = 1'-0"



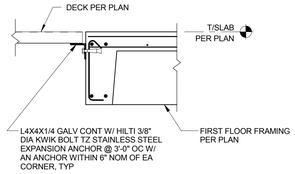
4 SS-321 **SECTION** 3/4" = 1'-0"



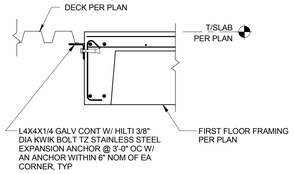
5 SS-321 **SECTION** 3/4" = 1'-0"



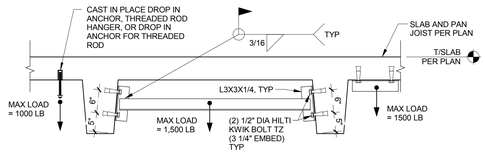
6 SS-321 **SECTION** 3/4" = 1'-0"



7 SS-321 **SECTION** 3/4" = 1'-0"

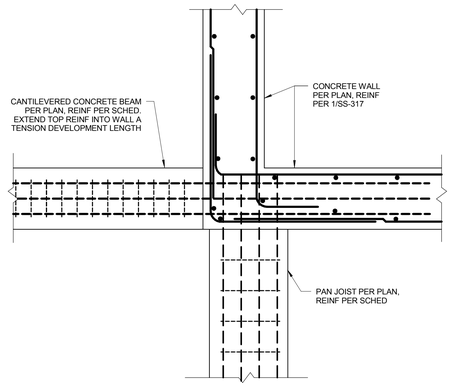


8 SS-321 **SECTION** 3/4" = 1'-0"

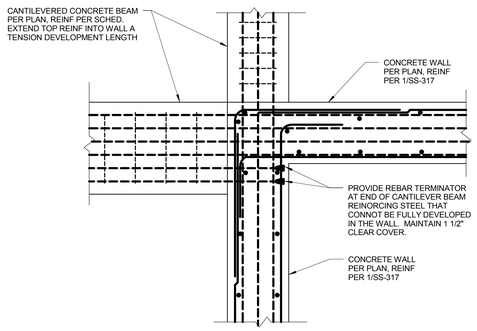


NOTE: ALL ANCHORAGE TYPES ARE SHOWN TO PROVIDE DIFFERENT CONNECTION CONCEPTS. CONTRACTOR SHALL SUBMIT ALL ANCHORAGE CONCEPTS AND LAYOUT TO THE STRUCTURAL ENGINEER FOR REVIEW.

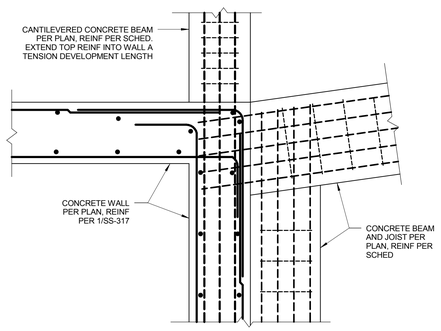
9 SS-321 **TYPICAL CONNECTION TO CONCRETE JOIST DETAIL** 3/4" = 1'-0"



10 SS-321 **PLAN DETAIL** 1" = 1'-0"



11 SS-321 **PLAN DETAIL** 1" = 1'-0"



12 SS-321 **PLAN DETAIL** 1" = 1'-0"

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SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

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CONSULTANTS:

ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title: CONCRETE FRAMING DETAILS
Approved: Project Director
Project Title: SPS BASEMENT ADDITION
Location: 2121 LAKE AVE., FORT WAYNE, IN 46805
Date: 8/15/2014 | Checked: ABZ | Drawn: DAE
Project Number: 2010.00629
Building Number: 01
Drawing Number: SS-321

Office of Construction and Facilities Management
VA Department of Veterans Affairs

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MILD REINFORCED CONCRETE BEAM SCHEDULE

BEAM MARK	TYPE	SIZE	LONGITUDINAL REINFORCEMENT				STIRRUPS				REMARKS
		WIDTH x DEPTH (IN)	CONT	ADDITIONAL							
B1	1	18X30	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(4) #5	-	-	-	FULL	#3	S2a	@ 12"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(4) #7	-	-	-					
B2	2	24X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(4) #8	(4) #8	-	(4) #8	EA END	#3	S4	20 @ 4"	
			BOTTOM	B1	B2	B3	BAL	#3	S2a	@ 6"	
			(8) #8	-	-	-					
B3	2	24X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(4) #8	(4) #8	-	-	FULL	#3	S2a	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(8) #8	-	-	-					
B4	2	24X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(4) #8	(4) #8	-	(4) #8	EA END	#3	C2c	25 @ 3"	
			BOTTOM	B1	B2	B3	BAL	#3	C2c	@6"	
			(6) #8	-	-	-					
B5	2	24X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(4) #8	(4) #8	-	-	FULL	#3	C2c	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(6) #8	-	-	-					
B6	2	24.5X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(5) #5	-	-	-	EA END	#3	S2a	(8) @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S2a	BAL @ 12"	
			(5) #6	-	-	-					
B7	3	24.5X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(5) #5	-	-	(2) #5	EA END	#3	S2a	@ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S2a	BAL @ 12"	
			(5) #6	-	-	-					
B8	3	24.5X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	CANTILEVER BEAM. SPACE STIRRUPS STARTING FROM SUPPORT END
			(5) #5	(2) #5	-	(2) #5	FULL	#3	S2a	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(5) #6	-	-	-					
B9	2	24X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(8) #7	-	-	-	FULL	#3	S2a	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(4) #5	-	-	-					
B10	2	24X30	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(7) #7	(1) #7	-	(1) #7	EA END	#3	S2a	21 @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S2a	BAL @ 12"	
			(4) #7	-	(2) #7	-					
B11	2	24X30	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(7) #7	-	-	-	FULL	#3	S2a	@ 9"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(4) #7	-	-	-					
B12	2	24X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(6) #7	(1) #7	-	-	FULL	#3	S2a	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(4) #7	-	(1) #7	-					
B13	2	24X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(6) #7	-	-	-	FULL	#3	S2a	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(4) #7	-	(1) #7	-					
B14	2	24X30	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(6) #7	-	-	(2) #7	FULL	#3	S2a	@ 9"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(4) #7	-	-	-					
B15	2	24X30	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(6) #7	(2) #7	-	-	EA END	#3	S2a	26 @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S2a	BAL @ 12"	
			(4) #7	-	(4) #7	-					

MILD REINFORCED CONCRETE BEAM SCHEDULE

BEAM MARK	TYPE	SIZE	LONGITUDINAL REINFORCEMENT				STIRRUPS				REMARKS
		WIDTH x DEPTH (IN)	CONT	ADDITIONAL							
B16	1	12X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(3) #5	-	-	-	FULL	#3	S2a	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(3) #6	-	-	-					
B17	3	12X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	CANTILEVER BEAM. SPACE STIRRUPS STARTING FROM SUPPORT END
			(3) #9	(2) #7	-	(2) #7	FULL	#3	S2a	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #5	-	-	-					
B18	2	18X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(5) #7	-	-	(3) #7	FULL	#3	S2a	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(3) #7	-	-	-					
B19	2	18X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(3) #7	(3) #7	-	(3) #7	EA END	#3	S2a	22 @ 3"	
			BOTTOM	B1	B2	B3	BAL	#3	S2a	BAL @ 6"	
			(4) #7	-	-	-					
B20	2	18X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(3) #7	(3) #7	-	-	FULL	#3	S2a	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(3) #7	-	-	-					
B21	2	18X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	CANTILEVER BEAM. SPACE STIRRUPS STARTING FROM SUPPORT END
			(3) #9	(3) #9	-	(3) #9	FULL	#3	S2a	@ 3"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(4) #6	-	-	-					
B22	2	18X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(3) #7	-	-	-	EA END	#3	S2a	22 @ 3"	
			BOTTOM	B1	B2	B3	BAL	#3	S2a	BAL @ 6"	
			(4) #7	-	-	-					
B23	2	18X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	-
			(3) #7	-	-	-	FULL	#3	S2a	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(4) #7	-	-	-					
B24	2	24X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	CANTILEVER BEAM. SPACE STIRRUPS STARTING FROM SUPPORT END
			(8) #7	-	-	-	FULL	#3	S2a	@ 3"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(6) #5	-	-	-					

NOTE: SEE TYPICAL MILD REINFORCED CONCRETE JOIST/BEAM DETAILS AND TYPICAL CONCRETE JOIST/BEAM DESIGNATION DETAIL

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Revisions:	Date

VA

SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

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ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title: CONCRETE BEAM SCHEDULE

Approved: Project Director

Project Title: SPS BASEMENT ADDITION

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Project Number: 2010.00629

Building Number: 01

Drawing Number: SS-325

Office of Construction and Facilities Management

VA Department of Veterans Affairs

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VA FORM 08-6231

MILD REINFORCED CONCRETE JOIST SCHEDULE

JOIST MARK	TYPE	SIZE	LONGITUDINAL REINFORCEMENT				STIRRUPS				REMARKS
		WIDTH x DEPTH (IN)	CONT	ADDITIONAL							
J1	2	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(5) #5	(1) #5	-	-	EA END	#3	S1	(25) @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S1	BAL @ 12"	
			(2) #7	-	-	-					
J2	2	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(5) #5	-	-	-	EA END	#3	S1	(20) @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S1	BAL @ 12"	
			(2) #6	-	-	-					
J3	3	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(5) #5	-	-	-	EA END	#3	S1	(22) @ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #6	-	-	-					
J4	3	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	CANTILEVER JOIST. SPACE STIRRUPS STARTING FROM LEFT END
			(5) #5	-	-	-	FULL	#3	S1	(18) @ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #6	-	-	-					
J5	1	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(3) #5	-	-	-	EA END	#3	S1	(8) @ 12"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #5	-	-	-					
J6	2	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(5) #5	(2) #5	-	-	EA END	#3	S1	(27) @ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #7	-	-	-					
J7	2	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(5) #5	-	-	-	EA END	#3	S1	(20) @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S1	BAL @ 12"	
			(2) #7	-	-	-					
J8	2	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(5) #5	-	-	(2) #5	EA END	#3	S1	(10) @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S1	BAL @ 12"	
			(2) #5	-	-	-					
J9	2	19X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(5) #5	-	-	-	EA END	#3	S2b	(14) @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S2b	BAL @ 12"	
			(3) #6	-	-	-					
J10	2	19X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(5) #5	(2) #5	-	-	EA END	#3	S2b	(10) @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S2b	BAL @ 12"	
			(3) #6	-	-	-					
J11	3	19X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(5) #5	-	-	-	EA END	#3	S2b	(22) @ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(3) #6	-	-	-					
J12	3	19X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	CANTILEVER JOIST. SPACE STIRRUPS STARTING FROM LEFT END
			(5) #5	(2) #5	-	(2) #5	FULL	#3	S2b	(18) @ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(3) #6	-	-	-					
J13	3	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	CANTILEVER JOIST. SPACE STIRRUPS STARTING FROM LEFT END
			(5) #5	(1) #5	-	(1) #5	FULL	#3	S1	(20) @ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #6	-	-	-					
J14	2	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(4) #5	-	-	-	EA END	#3	S1	(15) @ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #6	-	-	-					
J15	2	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(5) #5	(1) #5	-	-	EA END	#3	S1	(9) @ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #5	-	-	-					

MILD REINFORCED CONCRETE JOIST SCHEDULE

JOIST MARK	TYPE	SIZE	LONGITUDINAL REINFORCEMENT				STIRRUPS				REMARKS
		WIDTH x DEPTH (IN)	CONT	ADDITIONAL							
J16	2	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(4) #5	-	-	-	EA END	#3	S1	(14) @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S1	BAL @ 12"	
			(2) #6	-	-	-					
J17	2	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(4) #5	-	-	-	EA END	#3	S1	(19) @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S1	BAL @ 12"	
			(2) #6	-	-	-					
J18	2	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(3) #5	-	-	-	FULL	#3	S1	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #5	-	-	-					
J19	2	13X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(4) #5	-	-	-	FULL	#3	S2b	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #6	-	(1) #6	-					
J20	1	13X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(4) #5	-	-	-	FULL	#3	S2b	@ 12"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #6	-	-	-					
J21	2	8.5X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(5) #5	(2) #5	-	-	EA END	#3	S1	(27) @ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #7	-	-	-					
J22	2	12X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(4) #5	-	-	-	EA END	#3	S2b	(19) @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S2b	BAL @ 12"	
			(3) #8	-	-	-					
J23	3	12X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(4) #5	-	-	-	FULL	#3	S2b	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #6	-	-	-					
J24	3	12X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	CANTILEVER JOIST. SPACE STIRRUPS STARTING FROM LEFT END
			(4) #5	-	-	-	FULL	#3	S2b	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #6	-	-	-					
J25	2	15.5X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(4) #5	-	-	-	EA END	#3	S2b	(17) @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S2b	BAL @ 12"	
			(3) #6	-	-	-					
J26	3	15.5X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(4) #5	-	-	-	FULL	#3	S2b	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(3) #6	-	-	-					
J27	3	15.5X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	CANTILEVER JOIST. SPACE STIRRUPS STARTING FROM LEFT END
			(4) #5	-	-	-	FULL	#3	S2b	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(3) #6	-	-	-					
J28	2	12X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(4) #5	-	-	-	FULL	#3	S2b	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #6	-	-	-					
J29	1	7X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(4) #5	-	-	-	EA END	#3	S1	(13) @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S1	BAL @ 12"	
			(2) #6	-	-	-					
J30	2	6X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(2) #5	-	-	-	FULL	#3	S1	@ 12"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(2) #5	-	-	-					

MILD REINFORCED CONCRETE JOIST SCHEDULE

JOIST MARK	TYPE	SIZE	LONGITUDINAL REINFORCEMENT				STIRRUPS				REMARKS
		WIDTH x DEPTH (IN)	CONT	ADDITIONAL							
J31	2	19X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(5) #5	-	-	(1) #5	EA END	#3	S1	(14) @ 6"	
			BOTTOM	B1	B2	B3	BAL	#3	S1	BAL @ 12"	
			(3) #6	-	-	-					
J32	2	19X19	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
			(6) #5	-	-	-	FULL	#3	S1	@ 6"	
			BOTTOM	B1	B2	B3	BAL	-	-	-	
			(3) #6	-	-	-					

NOTE: SEE TYPICAL MILD REINFORCED CONCRETE JOIST/BEAM DETAILS AND TYPICAL CONCRETE JOIST/BEAM DESIGNATION DETAIL

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Revisions:	Date

SPS BASEMENT ADDITION

2121 LAKE AVE., FORT WAYNE, IN 46805

ARCHITECT/ENGINEERS:

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CONSULTANTS:

ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title: CONCRETE JOIST SCHEDULE

Project Title: SPS BASEMENT ADDITION

Project Number: 2010.00629

Building Number: 01

Approved: Project Director

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Drawing Number: SS-326

Office of Construction and Facilities Management

VA Department of Veterans Affairs

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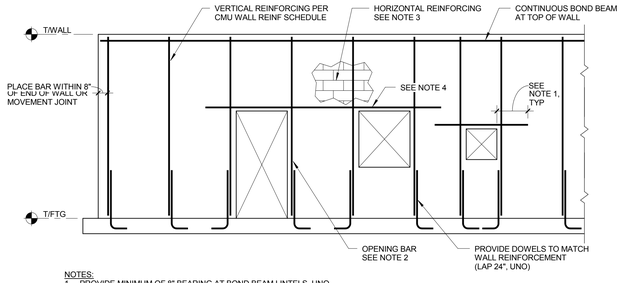
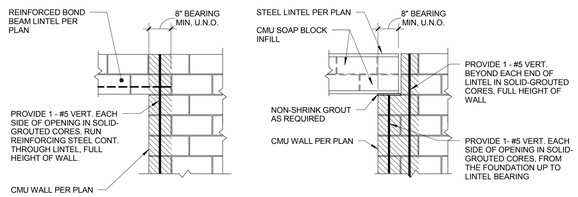
VA FORM 08-6231



NOTES:
1. PROVIDE MINIMUM OF 8" BEARING AT BOND BEAM LINTELS, UNO.
2. PROVIDE FULL HEIGHT VERTICAL BAR EACH SIDE OF AND ADJACENT TO EVERY OPENING. SEE LINTEL BEARING DETAILS FOR ADDITIONAL INFORMATION.
3. HORIZONTAL REINFORCING TO CONSIST OF 9 GAUGE LADDER TYPE WIRE REINFORCING SPACED AT 16" OC VERTICALLY, UNO.
4. PROVIDE CONTINUOUS BOND BEAM LINTELS OVER ADJACENT OPENINGS WITH LESS THAN 2'-8" OF MASONRY BETWEEN OPENINGS.
5. MINIMUM LAP OF REINFORCING WITHIN THE WALL SHALL BE 48 BAR DIAMETERS.

1 SS-401 TYPICAL REINFORCING AT CMU WALLS
N.T.S.

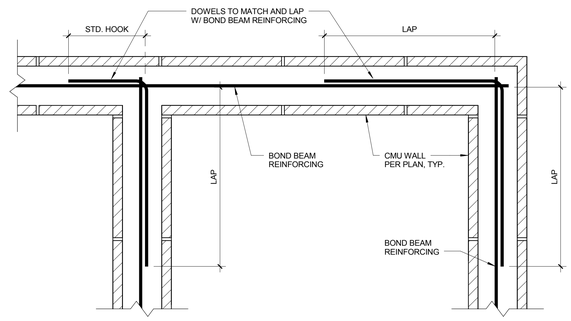


CMU BOND BEAM LINTEL

STEEL LINTEL

NOTE: INSTALL LINTELS TO PROVIDE EQUAL BEARING LENGTH EACH SIDE OF OPENING, U.N.O.

2 SS-401 TYPICAL LINTEL BEARING DETAILS
N.T.S.



3 SS-401 TYPICAL BOND BEAM REINFORCING DETAIL
N.T.S.

MASONRY REINFORCING STEEL LAP SPLICE CHART

BAR SPLICE LENGTHS

BAR	SPLICE LENGTHS
#3	27"
#4	36"
#5	45"
#6	54"
#7	63"
#8	72"
#9	82"

NOTES:

BARS LARGER THAN #9 ARE REQUIRED TO BE SPLICED BY MECHANICAL CONNECTORS UNLESS SPECIFICALLY SHOWN ON PLANS.

SPLICES BASED ON fs TAKEN EQUAL TO 100% OF THE ALLOWABLE TENSILE STRESS OF 24000 PSI.

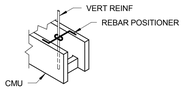
BASED ON f'm >= 1500 PSI

CMU WALL REINFORCEMENT SCHEDULE

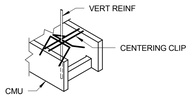
MARK	SIZE	VERTICAL REINFORCEMENT	REMARKS
W1	8"	#5 @ 48" OC	
W2			

NOTES:
1. SEE THE STRUCTURAL DRAWINGS, ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED HORIZONTAL (BOND BEAM AND JOINT) REINFORCEMENT AND REQUIRED ADDITIONAL VERTICAL REINFORCEMENT.
2. PROVIDE MATCHING HOOKED DOWELS INTO THE FOUNDATION FOR ALL VERTICAL REINFORCEMENT. GROUT SOLID ALL CELLS CONTAINING VERTICAL REINFORCEMENT.

TYP BAR PLACEMENT



REBAR POSITIONER



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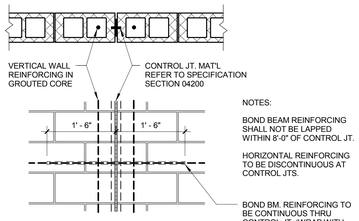
4 SS-401 TYPICAL REBAR POSITIONERS
N.T.S.



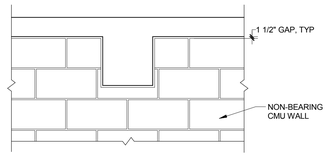
NOTES:

BOND BEAM REINFORCING SHALL NOT BE LAPPED WITHIN 8'-0" OF CONTROL JT.

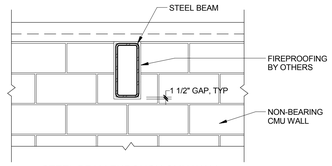
HORIZONTAL REINFORCING TO BE DISCONTINUOUS AT CONTROL JTS.

ENGINEER NOTE:
EDIT CONTROL JT. MATERIAL CALL OUT NOTE EITHER FOR SPECIFICATION SECTION OR GENERAL NOTES LOCATION.

5 SS-401 TYPICAL CMU CONTROL JOINT
N.T.S.

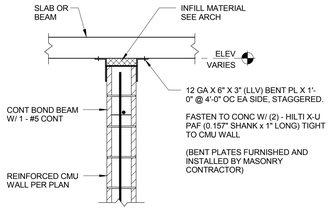


CONCRETE BEAM THROUGH CMU WALL



STEEL BEAM THROUGH CMU WALL

6 SS-401 TYPICAL CMU NON-BEARING WALL DETAILS
N.T.S.



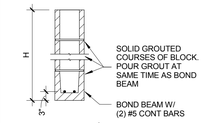
NOTE: DETAIL APPLIES FOR CMU PARTITION WALLS PARALLEL TO CONCRETE JOIST FRAMING WHERE THERE IS NO CONFLICT WITH THE JOIST. SEE "TYPICAL CMU WALL TOP ANCHORAGE PARALLEL TO CONCRETE JOIST" DETAIL FOR WALL BRACING INFORMATION AT JOIST CONFLICT LOCATIONS

7 SS-401 TYPICAL CMU PARTITION WALL BRACING DETAIL AT CONCRETE SLAB OR BEAM
N.T.S.

LINTEL SCHEDULE

MARK	SECTION	LENGTH	TYPE	NOTES
L1	8" WIDE x 8" HIGH	PER ARCH	A	
L2	8" WIDE x 16" HIGH	PER ARCH	A	
L3	L4x4x3/8	PER ARCH	D	
L4	(2) L4x4x3/8	PER ARCH	C	

TYPES:



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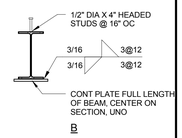


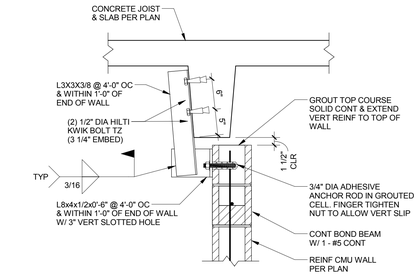
B

C

D

LINTEL SCHEDULE NOTES:

1. ALL LINTELS BEAR 0'-8" ONTO SUPPORTING WALLS, UNO.
2. ALL STEEL LINTELS AND SHELF ANGLES IN EXTERIOR WALLS SHALL BE GALVANIZED.
3. BOTTOM PLATES SHALL EXTEND THE FULL LENGTH OF THE LINTEL, INCLUDING BEARING LENGTH, UNO.
4. AT CMU INFILL (SOAPS) AT STEEL LINTELS, PROVIDE METAL ANCHORAGE AT EVERY COURSE @ 16" OC TO TIE CMU TO STEEL.

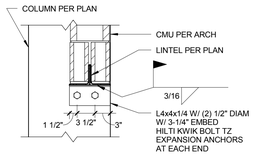


CMU PARTITION WALL BRACING SCHEDULE

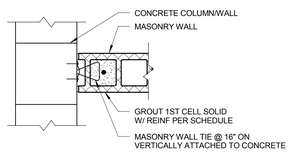
CMU SIZE	*INTERSECTING WALL MAX SPACING	MAX BRACE SPACING	REMARKS
4"	10'-0"	4'-0"	
6"	15'-4"	6'-0"	
8"	18'-0"	6'-0"	

***NOTE:** PROVIDE BRACING AS SHOWN FOR ALL CMU PARTITION WALLS WHERE THE DISTANCE BETWEEN INTERSECTING WALLS EXCEEDS THE MAXIMUM SPACING SHOWN IN THE SCHEDULE ABOVE (WHICH ARE NOT OTHERWISE BRACED AT TOP).

8 SS-401 TYPICAL CMU WALL TOP ANCHORAGE PARALLELL TO CONCRETE JOIST
N.T.S.



9 SS-401 STEEL LINTEL CONNECTION TO COLUMN
1" = 1'-0"



10 SS-401 MASONRY WALL CONNECTION TO CONCRETE
1" = 1'-0"

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Revisions:	Date

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8/15/2014

Drawing Title	MASONRY TYPICAL DETAILS AND SCHEDULES
Approved: Project Director	
Project Title	SPS BASEMENT ADDITION
Location	2121 LAKE AVE., FORT WAYNE, IN 46805
Date	8/15/2014
Checked	ABZ
Drawn	DAE
Project Number	2010.00629
Building Number	01
Drawing Number	SS-401

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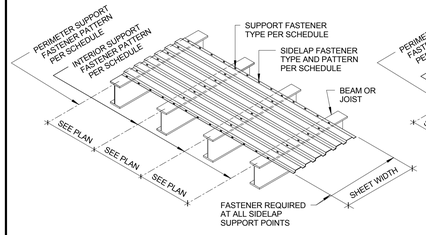
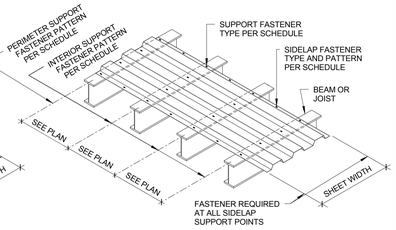
STEEL DECK SCHEDULE

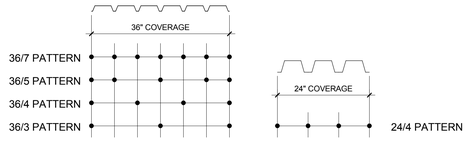
MARK	HEIGHT	GAUGE	TYPE	FINISH	SUPPORT FASTENER TYPE	PERIMETER SUPPORT FASTENER PATTERN	INTERIOR SUPPORT FASTENER PATTERN	SIDELAP FASTENER TYPE	SIDELAP FASTENER PATTERN	NOTES
D1	9/16"	22 GA	TYPE C	PAINTED	5/8" DIA PUDDLE WELDS	30/4	30/4	#10 TEK SCREWS	1 PER SPAN	
D2	3"	18 GA	TYPE N	PAINTED	5/8" DIA PUDDLE WELDS	24/4	24/4	#10 TEK SCREWS	5 PER SPAN	



1-1/2" DECK FASTENER PATTERN DIAGRAM



3" DECK FASTENER PATTERN DIAGRAM



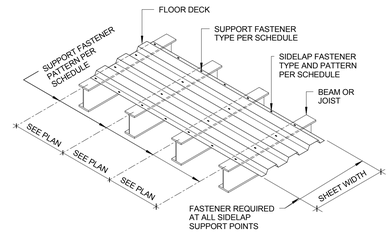
SUPPORT FASTENER PATTERN DEFINITION

NOTES:

1. FASTEN THROUGH MULTIPLE SHEETS AT ALL END AND SIDE LAPS.
2. END LAPS SHALL OCCUR ONLY AT SUPPORT POINTS.
3. DECK SHALL BE INSTALLED IN MINIMUM THREE SPAN CONDITION, UNO.

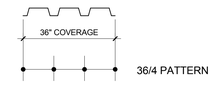
SLAB ON DECK SCHEDULE

MARK	HEIGHT	GAUGE	TYPE	FINISH	SLAB T	SLAB REINFORCING	SUPPORT FASTENER TYPE	SUPPORT FASTENER PATTERN	SIDELAP FASTENER TYPE	SIDELAP FASTENER PATTERN	NOTES
S1	3"	18 GA	COMPOSITE	GALV	7 1/2"	6x6-W2.9xW2.9 WWF	5/8" DIA PUDDLE WELDS	36/4	BUTTON PUNCH	SEE NOTE 5	



FASTENER PATTERN DIAGRAM

SLAB THICKNESS DEFINITION



SUPPORT FASTENER PATTERN DEFINITION

NOTES:

1. CONCRETE TO BE NORMAL WEIGHT, UNO.
2. FASTEN THROUGH MULTIPLE SHEETS AT ALL END AND SIDE LAPS.
3. END LAPS SHALL OCCUR ONLY AT SUPPORT POINTS.
4. DECK SHALL BE INSTALLED IN MINIMUM THREE SPAN CONDITION, UNO.
5. FOR DECK SPANS 6'-0" OR LESS, PROVIDE ONE SIDELAP FASTENER AT MID-SPAN OF EACH JOIST OR BEAM SPACE. FOR DECK SPANS EXCEEDING 6'-0", PROVIDE SIDELAP FASTENERS AT 3'-0" OC, MAX.

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Revisions:	Date

SPS BASEMENT ADDITION

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CONSULTANTS:

ADAM B. ZAHN REGISTERED No. PE10810189 STATE OF INDIANA PROFESSIONAL ENGINEER
8/15/2014

Drawing Title	SLAB AND DECK SCHEDULES
Project Title	SPS BASEMENT ADDITION
Project Number	2010.00629
Building Number	01
Approved: Project Director	
Location	2121 LAKE AVE., FORT WAYNE, IN 46805
Date	8/15/2014
Checked	ABZ
Drawn	DAE
Drawing Number	SS-501

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VA Department of Veterans Affairs

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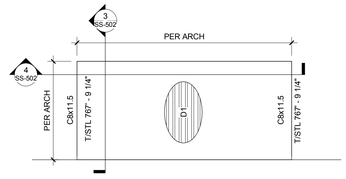
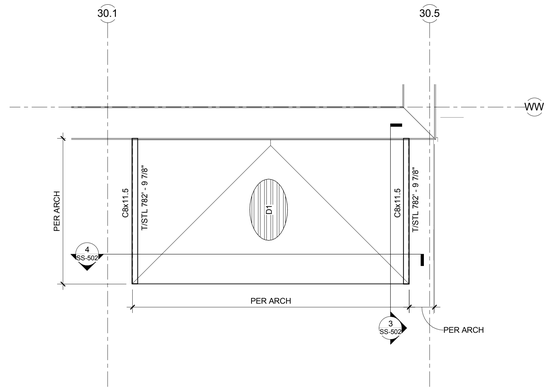
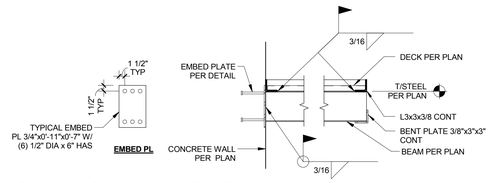


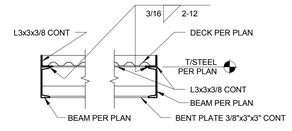
1 SS-502 **PLAN OF NE CANOPY FRAME**
1/2" = 1'-0"



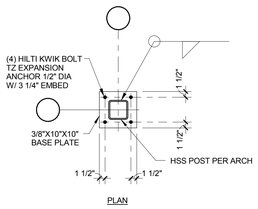
2 SS-502 **PLAN OF SW CANOPY FRAME**
1/2" = 1'-0"



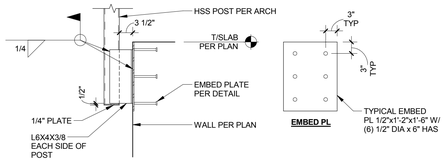
3 SS-502 **BEAM AND EMBED AT CANOPY**
3/4" = 1'-0"



4 SS-502 **SECTION AT CANOPY**
3/4" = 1'-0"



5 SS-502 **TYPICAL HSS POST BASE DETAIL**
3/4" = 1'-0"



6 SS-502 **TYPICAL EMBED PLATE DETAIL AT SCREEN WALL POST**
3/4" = 1'-0"

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SPS BASEMENT ADDITION

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CONSULTANTS:

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8/15/2014

Drawing Title: STEEL FRAMING SECTIONS AND DETAILS

Approved: Project Director

Project Title: SPS BASEMENT ADDITION

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Project Number: 2010.00629

Building Number: 01

Drawing Number: SS-502

Office of Construction and Facilities Management

VA Department of Veterans Affairs

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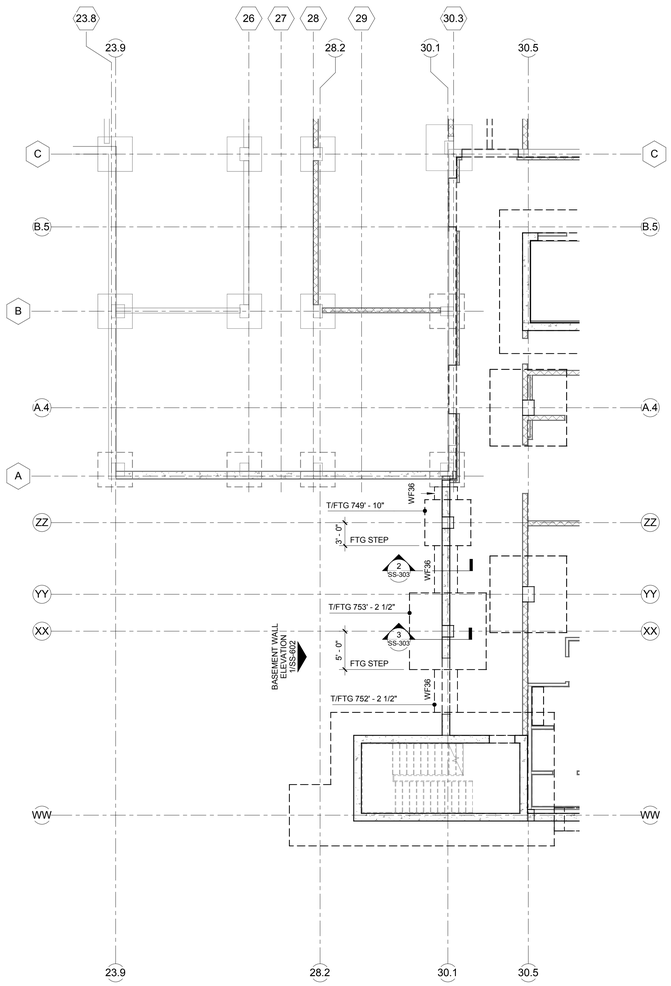
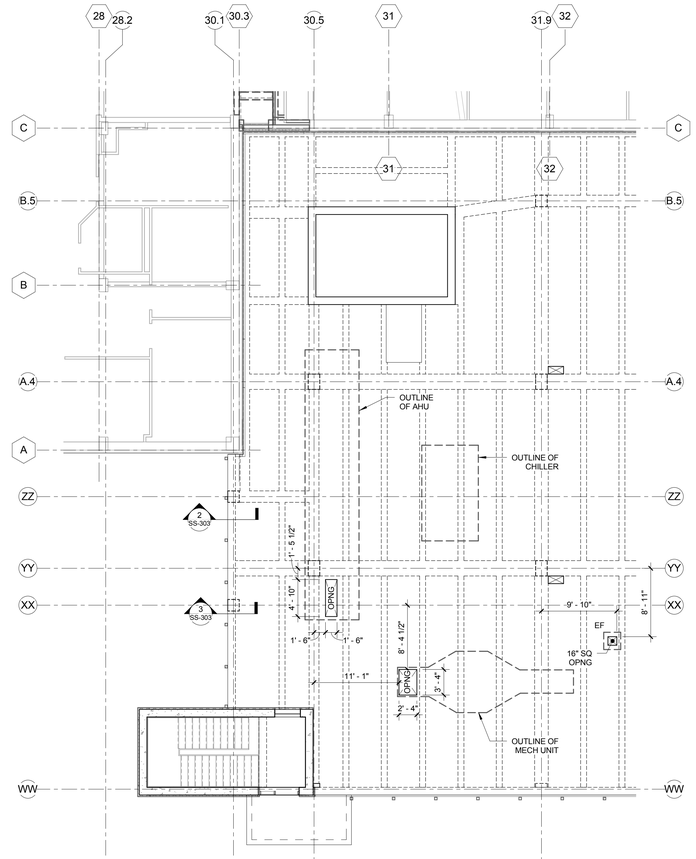


1 SS-601 FOUNDATION / BASEMENT PLAN - ALT. DEDUCT #03

1/8" = 1'-0"

NOTES:

1. SEE BASE BID FOUNDATION PLAN SS-101 FOR FOUNDATION INFORMATION NOT SHOWN HERE. INFORMATION SHOWN IS SPECIFIC TO ALTERNATE DEDUCT #03.
2. REFERENCE TOP OF SLAB (T/SLAB) ELEVATION = 759'-2 1/2"
3. TOP OF INTERIOR FOOTING ELEVATION = PER BASE BID PLANS, UNO
4. TOP OF PERIMETER FOOTING ELEVATION = PER BASE BID PLANS, UNO
5. REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
6. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
7. PROVIDE #4 BAR x 2'-6" LONG PLACED AT 45 DEGREES AT MID-DEPTH OF SLAB AT RE-ENTRANT CORNERS. SEE TYPICAL ADDITIONAL SLAB ON GRADE REINFORCING DETAIL.

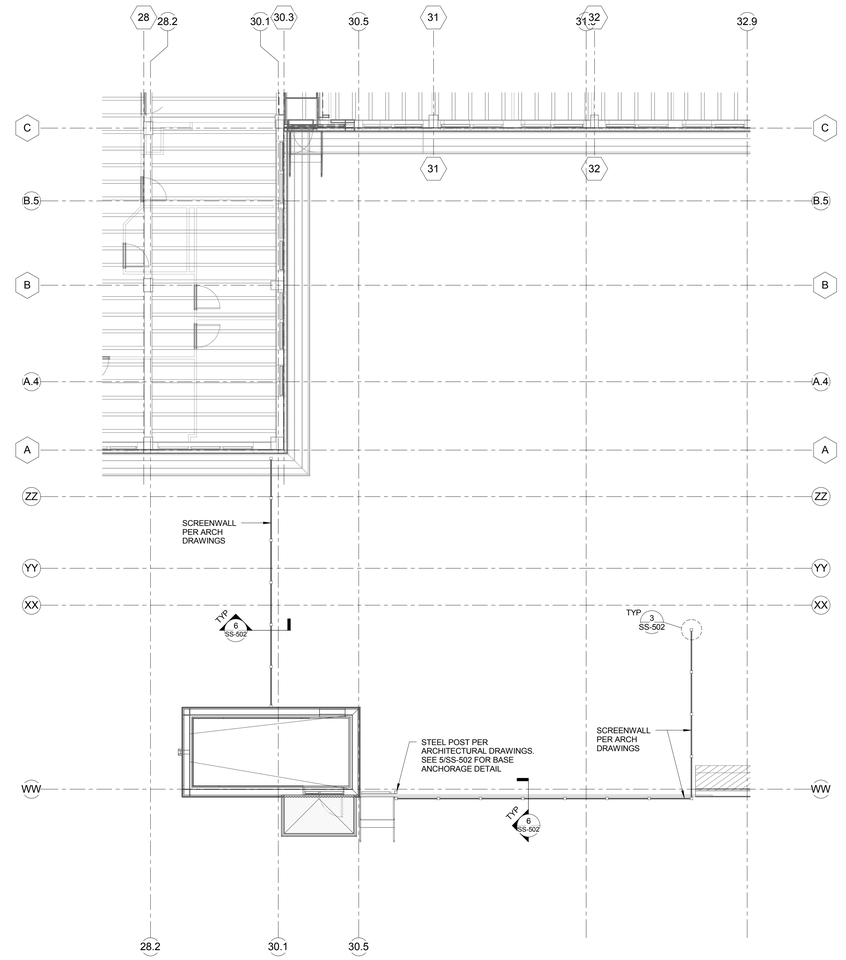


2 SS-601 FIRST FLOOR FRAMING PLAN - ALT. DEDUCT #03

1/8" = 1'-0"

NOTES:

1. SEE BASE BID FRAMING PLAN SS-201 FOR FRAMING INFORMATION NOT SHOWN HERE. INFORMATION SHOWN IS SPECIFIC TO ALTERNATE DEDUCT #03.
2. REFERENCE TOP OF SLAB (T/SLAB) ELEVATION = 772'-2 1/2"
3. REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
4. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
5. PROVIDE #4 BAR x 2'-6" LONG PLACED AT 45 DEGREES AT MID-DEPTH OF SLAB AT RE-ENTRANT CORNERS.
6. COORDINATE AND VERIFY LOCATION OF OPENINGS FOR MECHANICAL UNITS WITH THE MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF REINFORCING STEEL.



3 SS-601 STAIR TOWER ROOF FRAMING PLAN - ALT. DEDUCT #03

1/8" = 1'-0"

NOTES:

1. SEE BASE BID FRAMING PLAN SS-202 FOR FRAMING INFORMATION NOT SHOWN HERE. INFORMATION SHOWN IS SPECIFIC TO ALTERNATE DEDUCT #03.
2. REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
3. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.

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SPS BASEMENT ADDITION

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8/15/2014

Drawing Title: ALTERNATE DEDUCT #03 - STRUCTURAL PLANS

Approved: Project Director

Project Title: SPS BASEMENT ADDITION

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Project Number: 2010.00629

Building Number: 01

Drawing Number: SS-601

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

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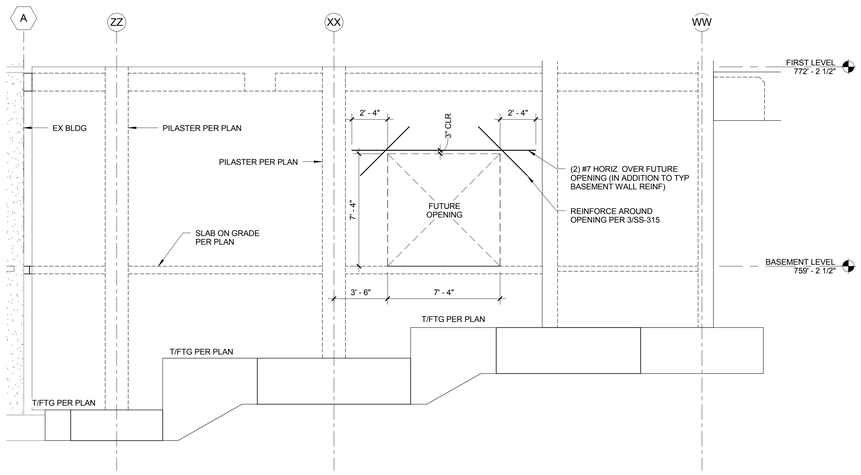

1 SS-602 **BASEMENT WALL ELEVATION ALONG LINE 30.1 - ALT. DEDUCT #03 & #04**

1/4" = 1'-0"

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8/15/2014

Drawing Title: ALTERNATE DEDUCT #03 - CONCRETE WALL ELEVATION

Approved: Project Director

Project Title: SPS BASEMENT ADDITION

Location: 2121 LAKE AVE., FORT WAYNE, IN 46805

Date: 8/15/2014 | Checked: ABZ | Drawn: DAE

Project Number: 2010.00629

Building Number: 01

Drawing Number: SS-602

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